

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

1

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-B-D GLEN LUCKY 473	USA 73021040						
L-D-F ALEXANDER 18311	840003010675559						
L-D-F ALEXANDER 18695	840003012900788						3
L-D-F ALEXANDER 18717	840003012900810						
L-D-F ALEXANDER 18888	840003012900981						3
L-D-F ALEXANDER SUZIE	840003010675737	C					
L-D-F ATLANTIC BERYL	840003010675604						
L-D-F ATLANTIC JANIE	840003010675629						
L-D-F AVERY 18349	840003010675597			C			
L-D-F BEN ELLESE-TW	840003010675728						
L-D-F BOOK MORGAN ARLENE	840003127390359						
L-D-F BULL 18391	840003010675639						
L-D-F BULL 18464	840003010675712						
L-D-F BULL 18529	840003012900622						
L-D-F BULL 18686	840003012900779						
L-D-F BULL 18741	840003012900834						
L-D-F BULL 18831	840003012900924						
L-D-F BULL 18885	840003012900978						
L-D-F CADDY ALYSSE-TW	840003012901066						
L-D-F COMMANDER 20051	840003127390058						
L-D-F CONFIRM 18551	840003012900644						
L-D-F CONNER 18684	840003012900777						
L-D-F CONNER 18700	840003012900793						
L-D-F CONNER 18779	840003012900872						
L-D-F CONNER ANNABELLE-TW	840003012901078						
L-D-F CONNER JENNA-TW	840003012901079						
L-D-F CONTACT 18428	840003010675676						
L-D-F CONTACT 18611	840003012900704						
L-D-F CONTACT 18668	840003012900761						
L-D-F CONTACT 18707	840003012900800						
L-D-F CONTACT 18786	840003012900879						
L-D-F CONTACT 19020	840003014231958						
L-D-F CONTACT 19317	840003014232255						
L-D-F CONTACT KARA	840003010675567						
L-D-F CONTACT MARIE	840003012901044						
L-D-F DADDY 18760	840003012900853						3
L-D-F DADDY 18834	840003012900927		C				
L-D-F DADDY 18851	840003012900944		C				
L-D-F DADDY 18863	840003012900956						
L-D-F DADDY 18867	840003012900960		C				
L-D-F DADDY 18935	840003012901028		C				3
L-D-F DADDY 18998	840003012901091		C				3
L-D-F DADDY 19157	840003014232095		C				3
L-D-F DADDY 19309	840003014232247						3
L-D-F DADDY 19944	840003125135734						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

2

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F DADDY BRIANN	840003012900639		C				3
L-D-F DADDY CHARLEE	840003012900809			C			
L-D-F DADDY CHRISSY	840003012900646		C				3
L-D-F DADDY DEENA	840003012900661						3
L-D-F DADDY EVELINE	840003012900705		C				
L-D-F DADDY HILLARY	840003012900687		C				
L-D-F DADDY JACLYN	840003012901031						
L-D-F DADDY JOLINA	840003012900738						
L-D-F DADDY KARAN	840003014231959						
L-D-F DADDY KRISTINE	840003012900663		C				3
L-D-F DADDY MABEL	840003012900711						
L-D-F DADDY MACIE	840003012900769						
L-D-F DADDY RADELLA	840003010675650						3
L-D-F DADDY SUMMER	840003012901011						3
L-D-F DARIX 19935	840003125135725						
L-D-F DASHAWN 19809	840003125135599		C				3
L-D-F DASHAWN 20614	840003130380896		C				
L-D-F DASHAWN LORI	840003127390440		C				
L-D-F DASHAWN THELMA	840003127390251						3
L-D-F DIAMOND 19542	840003125135332			C		C	
L-D-F DIAMOND 19556	840003125135346			C		C	
L-D-F DIAMOND 19578	840003125135368			C		C	
L-D-F DIAMOND 19596-TW	840003125135386						
L-D-F DIAMOND 19597-TW	840003125135387						
L-D-F DIAMOND 19604	840003125135394			C		C	
L-D-F DIAMOND 19640	840003125135430			C		C	
L-D-F DIAMOND 19654	840003125135444			C			
L-D-F DIAMOND 19663	840003125135453						
L-D-F DIAMOND 19666	840003125135456			C			
L-D-F DIAMOND 19690	840003125135480			C		C	
L-D-F DIAMOND 19701	840003125135491						
L-D-F DIAMOND 19725	840003125135515			C			
L-D-F DIAMOND 19750	840003125135540			C			
L-D-F DIAMOND 19765	840003125135555			C			
L-D-F DIAMOND 19778	840003125135568			C			
L-D-F DIAMOND 19784	840003125135574			C		C	
L-D-F DIAMOND 19795	840003125135585						
L-D-F DIAMOND 19807	840003125135597			C			
L-D-F DIAMOND 19835	840003125135625			C			3
L-D-F DIAMOND 19867	840003125135657					C	
L-D-F DIAMOND 19892	840003125135682	C					
L-D-F DIAMOND 19957-TW	840003125135747			C			
L-D-F DIAMOND 19958-TW	840003125135748			C			
L-D-F DIAMOND 20040	840003127390047			C			
L-D-F DIAMOND 20505	840003130380787			C		C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

3

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F DIAMOND 20517	840003130380799			C			
L-D-F DIAMOND 20558-TW	840003130380840					C	
L-D-F DIAMOND 20559-TW	840003130380841						
L-D-F DIAMOND 20648	840003130380930					C	
L-D-F DIAMOND 20731	840003130381013					C	
L-D-F DIAMOND 20742	840003130381024					C	
L-D-F DIAMOND ANNA	840003127390162						
L-D-F DIAMOND AVELINA	840003127390170			C			
L-D-F DIAMOND BRITTNEE	840003127390196						
L-D-F DIAMOND DANYLYNN	840003127390139					C	
L-D-F DIAMOND DENICA	840003127390376			C		C	
L-D-F DIAMOND DIANTHA	840003127390133						
L-D-F DIAMOND IONA	840003127390447					C	
L-D-F DIAMOND JEOVANNA	840003127390321			C			
L-D-F DIAMOND SALLY	840003127390017						
L-D-F DIAMOND SHIRLEY	840003127390370						
L-D-F DIESEL 18545	840003012900638						
L-D-F DOM 20007	840003127390014						
L-D-F DOM CALINDA	840003127390219						
L-D-F DOM CHERISA	840003127390113						
L-D-F DOM MARGERIE	840003125135774						
L-D-F EMERALD 19613	840003125135403	C					
L-D-F EMERALD 19689	840003125135479						
L-D-F EMERALD 19695-TW	840003125135485						
L-D-F EMERALD 19715	840003125135505						
L-D-F EMERALD 19734	840003125135524	C					
L-D-F EMERALD 20647	840003130380929	C					
L-D-F EMERALD 20660	840003130380942	C					
L-D-F EMERALD CHERISE	840003127390373						
L-D-F EMERALD GENNY	840003127390401						
L-D-F EMERALD KEVINA	840003127390020						
L-D-F EMERALD LACINA	840003127390086						
L-D-F EMULATE 18608	840003012900701						
L-D-F EMULATE AUGUSTA	840003010675693						
L-D-F ENERGY 18540	840003012900633						
L-D-F ENERGY 18562	840003012900655						
L-D-F ENERGY 18574	840003012900667						
L-D-F ENERGY 18614	840003012900707						
L-D-F ENERGY 18960	840003012901053						
L-D-F FORK 19976	840003125135766						
L-D-F FORK 20539	840003130380821						3
L-D-F FORK LYNDA-TW	840003127390255						
L-D-F FORK TRINITY	840003127390083						
L-D-F GATEWAY 18602	840003012900695						
L-D-F GLEN CASSY	840003004652346						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

4

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F GULF 19554	840003125135344						
L-D-F GULF 19699	840003125135489						
L-D-F GULF 19743	840003125135533						
L-D-F GULF 19899	840003125135689						
L-D-F GULF 20029	840003127390036						
L-D-F GULF 20094	840003127390101						
L-D-F GULF 20162	840003127390169						
L-D-F GULF JOEANNA	840003127390149						
L-D-F HE-MAN 20560	840003130380842						
L-D-F HE-MAN 20591	840003130380873						
L-D-F HE-MAN 20604	840003130380886						
L-D-F HE-MAN 20624	840003130380906						
L-D-F HEADLINER 20552	840003130380834						
L-D-F HEADLINER 20616	840003130380898						
L-D-F HEADLINER 20617	840003130380899						
L-D-F HEADLINER 20641	840003130380923						
L-D-F HEADLINER 20675-TW	840003130380957	C					
L-D-F HEADLINER 20681	840003130380963						
L-D-F HEADLINER 20720	840003130381002						
L-D-F HEADLINER 20734	840003130381016			C			
L-D-F HEADLINER 20748	840003130381030						
L-D-F HEADLINER 20760	840003130381042						
L-D-F HEADLINER CINDI	840003127390444						
L-D-F HEADLINER DANITA	840003127390425						3
L-D-F HEADLINER EMMA	840003127390429					C	
L-D-F HEADLINER JESSIE	840003127390454						
L-D-F KALAHARI 18400	840003010675648	C					
L-D-F KALAHARI 18456	840003010675704						
L-D-F KALAHARI 18536	840003012900629	C					
L-D-F KALAHARI 18639	840003012900732	C					
L-D-F KALAHARI 18775	840003012900868	C					
L-D-F KALAHARI 18975	840003012901068	C					
L-D-F KALAHARI 18977	840003012901070						
L-D-F KALAHARI 19022	840003014231960	C					
L-D-F KALAHARI 19039	840003014231977						
L-D-F KALAHARI 19129	840003014232067	C					
L-D-F KALAHARI 19321	840003014232259	C					
L-D-F KALAHARI ISABEL	840003127390023	C				C	
L-D-F KALAHARI JENNIFER	840003012901088						
L-D-F KALAHARI PRIMROSE	840003010675605						
L-D-F KALAHARI ROSEANNE	840003014231969	C					1
L-D-F KALAHARI TANGERINE	840003010675645	C					
L-D-F KALAHARI TEELA	840003014232132	C					
L-D-F KRAMER 18384	840003010675632						
L-D-F KRAMER 18425	840003010675673						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

5

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F KRAMER 18523	840003012900616			C			
L-D-F KRAMER 18675	840003012900768			C			
L-D-F KRAMER 18950	840003012901043			C			
L-D-F KRAMER 19044	840003014231982						
L-D-F KRAMER 19093	840003014232031			C			
L-D-F KRAMER JANIE	840003010675642						
L-D-F KRAMER KAYLEA	840003127390304			C			
L-D-F LAYNE 18453	840003010675701						
L-D-F LAYNE 18788	840003012900881						
L-D-F LAYNE 18840	840003012900933						
L-D-F LAYNE 19074	840003014232012						
L-D-F LAYNE 19111	840003014232049						
L-D-F LAYNE 19125	840003014232063						
L-D-F LAYNE 19590	840003125135380						
L-D-F LAYNE 19591	840003125135381						
L-D-F LAYNE 19647	840003125135437	C					
L-D-F LAYNE 19675	840003125135465						
L-D-F LAYNE 19733	840003125135523						
L-D-F LAYNE 19740	840003125135530						
L-D-F LAYNE 19746	840003125135536						
L-D-F LAYNE 19841	840003125135631						
L-D-F LAYNE 19868	840003125135658			C			
L-D-F LAYNE 19888	840003125135678						
L-D-F LAYNE 19894	840003125135684						
L-D-F LAYNE 19905	840003125135695						
L-D-F LAYNE ALURA	840003010675702						
L-D-F LAYNE ANNISSA	840003127390187						
L-D-F LAYNE ARDELLA	840003012901071						
L-D-F LAYNE ARLYN	840003127390110			C			
L-D-F LAYNE BETSY	840003127390053	C					
L-D-F LAYNE CAROL	840003010675707						
L-D-F LAYNE DANNI	840003012900626						
L-D-F LAYNE DIAMONIQUE	840003012900608						
L-D-F LAYNE DIANA	840003012900688						
L-D-F LAYNE ETTA	840003014231966						
L-D-F LAYNE FRANCIE	840003127390147			C			
L-D-F LAYNE GERI	840003010675656						
L-D-F LAYNE JOLI	840003010675680						
L-D-F LAYNE KAMREN	840003012900651			C			
L-D-F LAYNE KARAN	840003012900787						
L-D-F LAYNE LISA	840003127390040						
L-D-F LAYNE MAREE	840003012901061					C	
L-D-F LAYNE NELDA	840003010675684						
L-D-F LAYNE SALLY	840003012900640						
L-D-F LAYNE STORMIE	840003012900717			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

6

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F LAYNE TANGERINE	840003012900656						
L-D-F MACKINAW 18690	840003012900783						
L-D-F MAN-O-MAN2 18744	840003012900837						
L-D-F MAN-O-MAN2 18748	840003012900841						
L-D-F MAN-O-MAN2 18757	840003012900850						
L-D-F MAN-O-MAN2 18767	840003012900860						
L-D-F MAN-O-MAN2 18787	840003012900880						
L-D-F MAN-O-MAN2 18804	840003012900897						
L-D-F MAN-O-MAN2 18822	840003012900915						
L-D-F MAN-O-MAN2 18865	840003012900958						
L-D-F MAN-O-MAN2 18903	840003012900996						
L-D-F MAN-O-MAN2 18906	840003012900999						
L-D-F MAN-O-MAN2 18955	840003012901048						
L-D-F MAN-O-MAN2 JONITA-TW	840003012901017						
L-D-F MASSIVE 19579	840003125135369		C				
L-D-F MAURICE 18983	840003012901076						
L-D-F MAURICE 19056	840003014231994						
L-D-F MAURICE 19223	840003014232161		C				
L-D-F MAURICE 19318	840003014232256						
L-D-F MAURICE 19367	840003014232305						
L-D-F MAURICE 19407	840003014232345						
L-D-F MAURICE 19471	840003014232409						
L-D-F MAURICE BO	840003012901063						
L-D-F MAURICE CHELSIE	840003014232200						
L-D-F MAURICE EMMA	840003014231979						
L-D-F MAURICE SUE	840003012901025						
L-D-F MCCUTCHEN 20789	840003130381071						
L-D-F MICAH 18333	840003010675581					C	
L-D-F MICAH 18647	840003012900740						
L-D-F MICAH 18933	840003012901026		C			C	
L-D-F MICAH 18979	840003012901072						
L-D-F MICAH 19106	840003014232044						
L-D-F MICAH FRIEDA	840003012900710					C	
L-D-F MICAH LASS	840003012900827						
L-D-F MIDNIGHT 20537	840003130380819						
L-D-F MIDNIGHT 20603	840003130380885						
L-D-F MIDNIGHT 20632	840003130380914	C					
L-D-F MIDNIGHT 20683	840003130380965						
L-D-F MIDNIGHT 20696	840003130380978		C				
L-D-F MIDNIGHT 20784	840003130381066						
L-D-F MILLION 18644	840003012900737		C				
L-D-F MILLION 18696-TW	840003012900789						
L-D-F MILLION 18992-TW	840003012901085		C				
L-D-F MIXER 19061	840003014231999						
L-D-F MIXER 19068	840003014232006						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

7

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F MIXER 19085	840003014232023						
L-D-F MIXER 19199	840003014232137						
L-D-F MIXER 19210	840003014232148						
L-D-F MIXER 19234	840003014232172						
L-D-F MIXER 19331	840003014232269	C		C			
L-D-F MIXER 19364	840003014232302						
L-D-F MIXER 19380	840003014232318						
L-D-F MIXER 19389	840003014232327						
L-D-F MIXER 19392	840003014232330						
L-D-F MIXER 19402	840003014232340			C			
L-D-F MIXER 19404	840003014232342						
L-D-F MIXER 19406	840003014232344						
L-D-F MIXER 19457	840003014232395						
L-D-F MIXER 19461	840003014232399						
L-D-F MIXER 19476	840003014232414						
L-D-F MIXER 19482	840003014232420						
L-D-F MIXER 19483	840003014232421						
L-D-F MIXER 19497	840003014232435						
L-D-F MIXER 19531	840003125135321						
L-D-F MIXER 19549	840003125135339						
L-D-F MIXER ARLINDA	840003014232129						
L-D-F MIXER CHELSI	840003014232112						
L-D-F MIXER DAVIANNA	840003014231997						
L-D-F MIXER EARTHA	840003012901054						
L-D-F MIXER ELVIA	840003014232105						
L-D-F MIXER FAITH	840003012901056						
L-D-F MIXER KAYLYNN	840003014232121						
L-D-F MIXER KELSY	840003014232013						
L-D-F MIXER NELL	840003012900957						
L-D-F MIXER PAMELA	840003012900934						
L-D-F MOGUL 18496	840003010675744						
L-D-F MOGUL 18670	840003012900763						
L-D-F MOGUL 18692	840003012900785						
L-D-F MOGUL 18815	840003012900908						
L-D-F MOGUL 18827	840003012900920						
L-D-F MOGUL 18842	840003012900935						
L-D-F MOGUL 18854	840003012900947						
L-D-F MOGUL 19009	840003014231947						
L-D-F MOGUL 19013	840003014231951						
L-D-F MOGUL 19053	840003014231991						
L-D-F MOGUL 19055	840003014231993						3
L-D-F MOGUL 19072	840003014232010						
L-D-F MOGUL 19102	840003014232040						
L-D-F MOGUL 19123	840003014232061						
L-D-F MOGUL 19155	840003014232093						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

8

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F MOGUL 19159	840003014232097						
L-D-F MOGUL 19169	840003014232107						
L-D-F MOGUL 19175	840003014232113						
L-D-F MOGUL 19196	840003014232134						
L-D-F MOGUL 19244	840003014232182						
L-D-F MOGUL 19257	840003014232195						
L-D-F MOGUL 19320	840003014232258						
L-D-F MOGUL 19325	840003014232263						
L-D-F MOGUL 19337	840003014232275						
L-D-F MOGUL 19350	840003014232288						3
L-D-F MOGUL 19358	840003014232296						
L-D-F MOGUL 19388	840003014232326						
L-D-F MOGUL 19399	840003014232337						
L-D-F MOGUL 19405	840003014232343						
L-D-F MOGUL 19412	840003014232350						
L-D-F MOGUL 19414	840003014232352						
L-D-F MOGUL 19432	840003014232370						
L-D-F MOGUL 19438	840003014232376						
L-D-F MOGUL 19440	840003014232378						
L-D-F MOGUL 19446	840003014232384						
L-D-F MOGUL 19450	840003014232388						
L-D-F MOGUL 19500	840003125135290						
L-D-F MOGUL 19503	840003125135293						
L-D-F MOGUL 19563	840003125135353						
L-D-F MOGUL 19572	840003125135362	C					3
L-D-F MOGUL 19575	840003125135365						
L-D-F MOGUL 19576	840003125135366						
L-D-F MOGUL 19577	840003125135367						
L-D-F MOGUL 19593	840003125135383						
L-D-F MOGUL 19600	840003125135390						
L-D-F MOGUL 19605	840003125135395						
L-D-F MOGUL 19610	840003125135400						
L-D-F MOGUL 19667	840003125135457						
L-D-F MOGUL 19696	840003125135486						
L-D-F MOGUL 19724	840003125135514						
L-D-F MOGUL 19754	840003125135544						
L-D-F MOGUL 19759	840003125135549						
L-D-F MOGUL 19769	840003125135559						
L-D-F MOGUL 19787	840003125135577						
L-D-F MOGUL 19798	840003125135588						
L-D-F MOGUL 19845	840003125135635						
L-D-F MOGUL 19866	840003125135656						
L-D-F MOGUL 19873	840003125135663						
L-D-F MOGUL 19876	840003125135666						
L-D-F MOGUL 19886	840003125135676						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

9

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F MOGUL 19895	840003125135685						
L-D-F MOGUL 19896	840003125135686						
L-D-F MOGUL 19915	840003125135705						
L-D-F MOGUL 19923	840003125135713			C			
L-D-F MOGUL 19925	840003125135715						
L-D-F MOGUL 19969	840003125135759						
L-D-F MOGUL 19972	840003125135762						
L-D-F MOGUL ANTONINA	840003127390066						
L-D-F MOGUL ARDELIA	840003127390257						
L-D-F MOGUL BROOKLYN	840003012900690						3
L-D-F MOGUL CANDYCE	840003127390181						
L-D-F MOGUL CARO	840003127390249						
L-D-F MOGUL CASSANDRA	840003127390236						3
L-D-F MOGUL CHARLI	840003012900694			C			
L-D-F MOGUL CIM	840003012901029						
L-D-F MOGUL CORALIE	840003012900731						
L-D-F MOGUL DARLINE	840003010675688						
L-D-F MOGUL EDREA	840003127390134						
L-D-F MOGUL ELITA	840003127390212						
L-D-F MOGUL ELLISHA	840003012900743	C					
L-D-F MOGUL EMILY	840003012901009						
L-D-F MOGUL ENSLEY	840003127390120						
L-D-F MOGUL EVALINE	840003010675723						
L-D-F MOGUL FAREN	840003127390167					C	
L-D-F MOGUL GABRIELL	840003012900620						
L-D-F MOGUL JAINA	840003127390314						
L-D-F MOGUL JILLIANNA	840003127390204					C	
L-D-F MOGUL JOSLIN	840003012900628						
L-D-F MOGUL JUSTINE	840003127390247						
L-D-F MOGUL LAURA	840003127390178						
L-D-F MOGUL LEANA	840003127390218			C			
L-D-F MOGUL LILAC	840003012900770			C			
L-D-F MOGUL LYSSA-TW	840003012900613						
L-D-F MOGUL MARLYS	840003012901060						3
L-D-F MOGUL MICAELA	840003010675713						3
L-D-F MOGUL MYRTLE	840003125135771	C					3
L-D-F MOGUL Nanci	840003012900728						
L-D-F MOGUL ROSABELLA	840003010675732						
L-D-F MOGUL TESSA	840003127390013						
L-D-F MOGUL TRISA	840003012900668						3
L-D-F MORGAN 20535	840003130380817						
L-D-F MORGAN 20635	840003130380917						
L-D-F MORGAN 20653	840003130380935					C	
L-D-F MORGAN 20761	840003130381043					C	
L-D-F MORGAN 20773	840003130381055					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F MORGAN ARLENE	840003127390142						
L-D-F MORGAN ELYCE	840003127390424						
L-D-F MORGAN FELICE	840003127390164					C	
L-D-F MORGAN GALENA	840003127390327					C	
L-D-F MORGAN HARMONEE	840003127390292						
L-D-F MORGAN JINNI	840003127390116						
L-D-F MORGAN JORDYN	840003127390148						
L-D-F MORGAN SUZY	840003127390168					C	
L-D-F MORGAN VIRGINIA	840003127390325						
L-D-F O DADDY MIKELLA	840003014231988		C				3
L-D-F PREDESTINE 20542	840003130380824	C		C			
L-D-F PREDESTINE 20582	840003130380864						3
L-D-F PREDESTINE 20602	840003130380884						
L-D-F PREDESTINE 20628	840003130380910						3
L-D-F PREDESTINE 20646	840003130380928						3
L-D-F PREDESTINE 20751	840003130381033						3
L-D-F PREDESTINE ANTONINA	840003127390234						
L-D-F PREDESTINE ELETHEA	840003127390076			C			
L-D-F PREDESTINE ELYCE	840003127390466	C					3
L-D-F PREDESTINE EVALYN	840003127390287						
L-D-F PUNCH 18862	840003012900955						
L-D-F PUNCH 18890	840003012900983						
L-D-F PUNCH 18915	840003012901008						
L-D-F PUNCH 18917	840003012901010						
L-D-F PUNCH 18988	840003012901081			C			
L-D-F PUNCH 19070	840003014232008						
L-D-F PUNCH 19232	840003014232170						
L-D-F PUNCH 19245	840003014232183						
L-D-F PUNCH 19299	840003014232237						
L-D-F PUNCH 19307-TW	840003014232245						
L-D-F PUNCH 19314	840003014232252						
L-D-F PUNCH 19330	840003014232268						
L-D-F PUNCH 19341	840003014232279						
L-D-F PUNCH 19369	840003014232307						
L-D-F PUNCH 19371	840003014232309						
L-D-F PUNCH 19373	840003014232311						
L-D-F PUNCH 19427	840003014232365						
L-D-F PUNCH 19430	840003014232368						
L-D-F PUNCH 19445	840003014232383						
L-D-F PUNCH 19448	840003014232386						
L-D-F PUNCH 19455	840003014232393						
L-D-F PUNCH 19480	840003014232418						
L-D-F PUNCH 19507	840003125135297						
L-D-F PUNCH 19537	840003125135327						
L-D-F PUNCH ALLIE	840003012901090						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F PUNCH ANITA	840003014232151						
L-D-F PUNCH BETH-TW	840003012901067						
L-D-F PUNCH CYMBERLY	840003012900977						
L-D-F PUNCH EMELYE	840003012901013						
L-D-F PUNCH FERN	840003014232128						
L-D-F PUNCH JENAY	840003014232024						
L-D-F PUNCH KATHRYN	840003014232036						
L-D-F PUNCH LOVE	840003014232046	C					
L-D-F ROSS 18560	840003012900653						
L-D-F ROSS 18725	840003012900818						
L-D-F ROSS 20688	840003130380970			C			
L-D-F ROSS MAGGIE	840003014231950						
L-D-F ROSS SHEILA	840003012900660						
L-D-F ROSS*BY 18655	840003012900748						
L-D-F ROSS*BY 18656	840003012900749						
L-D-F ROSS*BY 18732	840003012900825						
L-D-F ROSS*BY 18875	840003012900968			C			
L-D-F ROSS*BY 19054	840003014231992			C			
L-D-F RUDOLPH-RED 18444	840003010675692						3
L-D-F SHAMROCK 18541	840003012900634						
L-D-F SHAMROCK 18615	840003012900708						
L-D-F SHAMROCK 18625	840003012900718			C			
L-D-F SHAMROCK 18773	840003012900866						
L-D-F SHAMROCK 18783	840003012900876						
L-D-F SHAMROCK 18894	840003012900987						
L-D-F SHAMROCK 18958	840003012901051						
L-D-F SHAMROCK 18980	840003012901073						
L-D-F SHAMROCK 18981	840003012901074			C			
L-D-F SHAMROCK 19034	840003014231972			C			
L-D-F SHAMROCK 19073	840003014232011						
L-D-F SHAMROCK 19100	840003014232038						
L-D-F SHAMROCK 19116	840003014232054						
L-D-F SHAMROCK 19144	840003014232082						
L-D-F SHAMROCK 19158	840003014232096						
L-D-F SHAMROCK 19172	840003014232110						
L-D-F SHAMROCK 19176	840003014232114						
L-D-F SHAMROCK 19181	840003014232119			C			
L-D-F SHAMROCK 19272	840003014232210						
L-D-F SHAMROCK 19342	840003014232280						
L-D-F SHAMROCK 19352	840003014232290			C			
L-D-F SHAMROCK 19360	840003014232298						
L-D-F SHAMROCK 19372	840003014232310						
L-D-F SHAMROCK 19376	840003014232314						
L-D-F SHAMROCK 19393	840003014232331						
L-D-F SHAMROCK 19409	840003014232347						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F SHAMROCK 19428	840003014232366						
L-D-F SHAMROCK 19433	840003014232371						
L-D-F SHAMROCK 19454	840003014232392						
L-D-F SHAMROCK 19478	840003014232416						
L-D-F SHAMROCK 19495	840003014232433						
L-D-F SHAMROCK 19513	840003125135303						
L-D-F SHAMROCK 19559	840003125135349	C					
L-D-F SHAMROCK 19570	840003125135360						
L-D-F SHAMROCK 19589	840003125135379		C				
L-D-F SHAMROCK 19606	840003125135396					C	
L-D-F SHAMROCK 19660	840003125135450						
L-D-F SHAMROCK 19670	840003125135460						
L-D-F SHAMROCK 19693	840003125135483						
L-D-F SHAMROCK 19727	840003125135517						
L-D-F SHAMROCK 19751	840003125135541						
L-D-F SHAMROCK 19755	840003125135545						
L-D-F SHAMROCK 19768	840003125135558						
L-D-F SHAMROCK 19791	840003125135581						
L-D-F SHAMROCK 20520	840003130380802						
L-D-F SHAMROCK 20576	840003130380858						
L-D-F SHAMROCK ALICE	840003010675695						
L-D-F SHAMROCK ARLA	840003012900617						
L-D-F SHAMROCK BETH	840003127390364						
L-D-F SHAMROCK BRIONE	840003127390068						
L-D-F SHAMROCK CECILY	840003012900725						
L-D-F SHAMROCK CHELSEY	840003127390460	C					
L-D-F SHAMROCK CHRISSY	840003010675697						
L-D-F SHAMROCK DODIE	840003010675665						
L-D-F SHAMROCK GERICA	840003127390044						
L-D-F SHAMROCK GILL	840003127390180						
L-D-F SHAMROCK JENNY	840003127390065						
L-D-F SHAMROCK JOAN	840003127390367						
L-D-F SHAMROCK LEEANN	840003012900666						3
L-D-F SHAMROCK LUCY	840003010675705						
L-D-F SHAMROCK STARR	840003012900618						
L-D-F SHAMROCK TIESHA	840003010675706						
L-D-F SHOT 18498	840003010675746						
L-D-F SHOT 18554	840003012900647			C			
L-D-F SHOT 18627	840003012900720						
L-D-F SHOT 18634-TW	840003012900727						
L-D-F SHOT 18704	840003012900797					C	
L-D-F SHOT ARIETTA	840003012900709					C	
L-D-F SHOT MANDY	840003012900864					C	
L-D-F SHOT TARA	840003010675565					C	
L-D-F SHOT TARALYNN	840003010675624						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-D-F SNOWDAY 18572	840003012900665						
L-D-F SNOWDAY 18896	840003012900989						
L-D-F SNOWDAY 18902	840003012900995						
L-D-F SNOWDAY 19101	840003014232039						
L-D-F SNOWDAY 19186	840003014232124						
L-D-F SNOWDAY 19639	840003125135429						
L-D-F SNOWDAY ANDREA	840003012900830						
L-D-F SPUR 18302	840003010675550						
L-D-F SPUR 18347	840003010675595						
L-D-F SPUR 18375	840003010675623						
L-D-F SPUR 19422	840003014232360			C			
L-D-F SPUR 19452	840003014232390			C			
L-D-F SUMMIT 19016	840003014231954						
L-D-F SUMMITT 18715	840003012900808			C			
L-D-F SUMMITT 18853	840003012900946						
L-D-F SUMMITT 19241	840003014232179						
L-D-F SUPERSIRE 20779	840003130381061						
L-D-F SUPERSIRE 20787	840003130381069						
L-D-F SUPERSIRE 20788	840003130381070						
L-D-F TEMPO CADI	840003010675668						
L-D-F TEMPO CLARRISA	840003010675590						
L-D-F TEMPO KACI	840003010675580						
L-D-F TONIGHT 20747	840003130381029						
L-D-F TRUMP 19609	840003125135399						
L-D-F UNK KRISTINA	840003127390224						
L-JO-BEE GCHIP DIAMOND	840003124018243						
L-JO-BEE MCCUTCHEN OMEGA	840003131809442						
L-JO-BEE STAMINA DONN	840003131809450						
L-L-M-DAIRY AL DYNA	USA 71640151						
L-L-M-DAIRY AL PAL	USA 71640148						
L-L-M-DAIRY ALEX PLATNUM-ET	USA 68756707						1
L-L-M-DAIRY ALTAOAK PEONY	USA 72758212						
L-L-M-DAIRY ALTAOAK POSY	USA 72758211						
L-L-M-DAIRY ARMTGE PUNCH-ET	USA 70202484						
L-L-M-DAIRY ATW SCARLET-ET	USA 72758223						
L-L-M-DAIRY ATWD SHAZAM-ET	USA 73757153						
L-L-M-DAIRY ATWOD SANDY-TW	USA 73757241						
L-L-M-DAIRY ATWOD SIDNEY-TW	USA 73757242						
L-L-M-DAIRY ATWOOD PASTA	USA 72758204						
L-L-M-DAIRY ATWOOD PSYCHEO	840003130430198						
L-L-M-DAIRY ATWOOD STAR-ET	USA 72758226						
L-L-M-DAIRY ATWOOD WOWIE	USA 71640125						
L-L-M-DAIRY B-VK DEVILLE-ET	USA 71640126						
L-L-M-DAIRY BARRY DONNA	840003130430172					C	
L-L-M-DAIRY BARRY DRAMA	840003130430177					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY BARRY SPARKLE	USA 73757246					C	
L-L-M-DAIRY BARRY TOPAZ	840003130430201		C			C	
L-L-M-DAIRY BARRY WASILLA	840003130430179					C	
L-L-M-DAIRY BAXTER DOTTY	USA 64955235						
L-L-M-DAIRY BOMBERO DIANE	USA 73757245						
L-L-M-DAIRY BOMBERO PEBBLES	USA 73757248						
L-L-M-DAIRY BOOKEM PATCH-ET	USA 70202444						
L-L-M-DAIRY BOOKEM PEACE	USA 70202465						
L-L-M-DAIRY BOOKEM PECAN-TW	USA 71640189						
L-L-M-DAIRY BOOKEM PRUNE-TW	USA 71640190						
L-L-M-DAIRY BOOKM DOREEN-ET	USA 70202427						
L-L-M-DAIRY BOWSER DOLLY	USA 70202423						
L-L-M-DAIRY BOWSER POWSER	USA 70202451						
L-L-M-DAIRY BOWSER PROM	USA 70202449						
L-L-M-DAIRY BRAXTON PACER	USA 71640135						
L-L-M-DAIRY BUTL DOORBEL-ET	USA 73757164						
L-L-M-DAIRY BUTL PHELICE-ET	USA 73757174						
L-L-M-DAIRY BUTLER DEMO-ET	USA 73757168						
L-L-M-DAIRY BUTLER DERBY-ET	USA 73757169						
L-L-M-DAIRY BUTLER DEVI-ET	USA 73757190						
L-L-M-DAIRY BUTLER DOME	USA 73757181						
L-L-M-DAIRY BUTLER DUSTY-ET	USA 73757158						
L-L-M-DAIRY BUTLER PHARMER	USA 73757187						
L-L-M-DAIRY BUTLR DELUXE-ET	USA 73757163						
L-L-M-DAIRY CAMERN DEEAZ-ET	USA 71640119						
L-L-M-DAIRY CAMR SEASAME-ET	USA 71640127						
L-L-M-DAIRY CAMRON SALLY-ET	USA 71640141						
L-L-M-DAIRY CM STORM-ET	USA 70202482						
L-L-M-DAIRY COMMANDER PINA	840003130430194						
L-L-M-DAIRY CORVETT SANTANA	840003130430184						
L-L-M-DAIRY DAMION PRISHA	USA 70202453						
L-L-M-DAIRY DARLING RAE-ET	USA 72758170						
L-L-M-DAIRY DEFE PAULINE-ET	USA 73757176						
L-L-M-DAIRY DEFEND PATTY-ET	USA 73757177						
L-L-M-DAIRY DEFER PAMELA-ET	USA 73757180						
L-L-M-DAIRY DELTA PAN AM	840003130430214						
L-L-M-DAIRY DELTA PANTENE	840003130430220						
L-L-M-DAIRY DELTA PAPER	840003130430213						
L-L-M-DAIRY DELTA PARKER	840003130430211						
L-L-M-DAIRY DELTA PATIENCE	840003130430216						
L-L-M-DAIRY DELTA SANTA	840003130430222						
L-L-M-DAIRY DENL THUNDER-ET	USA 70202408						3
L-L-M-DAIRY DENVER PEYTON	840003130430230						
L-L-M-DAIRY DENVER SNUKUMS	840003130430226						
L-L-M-DAIRY DENVER WYOMING	840003130430223						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY DESTINY RAE-ET	USA 72758157						
L-L-M-DAIRY DEVA RAE-ET	USA 72758198						
L-L-M-DAIRY DEYJ PAISLEY-TW	840003130430190						
L-L-M-DAIRY DEYJA DAMION	840003130430175						
L-L-M-DAIRY DEYJA PAYTON-TW	840003130430191						
L-L-M-DAIRY DIAMOND TIARA	USA 72758148					C	
L-L-M-DAIRY DIEHD PRIDE-ET	USA 62551410						
L-L-M-DAIRY DOORMAN PARISA	840003130430202					C	
L-L-M-DAIRY DOORMAN PILLOW	840003130430208						
L-L-M-DAIRY DOORMAN SHEVY	840003130430197						
L-L-M-DAIRY DORMAN CHLOE-ET	USA 73757204					C	
L-L-M-DAIRY DREAMRAE-ET	USA 72758163						
L-L-M-DAIRY EPIC POLYGON-ET	USA 71640153						
L-L-M-DAIRY ERASER HELEN	840003130430227						
L-L-M-DAIRY FATEL DAISY-ET	USA 18056527						
L-L-M-DAIRY FORMATN DAME-ET	USA 17374552	C					
L-L-M-DAIRY FORMATN DICE-ET	USA 17337938	C					
L-L-M-DAIRY GALON SHELBY-ET	USA 70202440						
L-L-M-DAIRY GALON SHIELA-ET	USA 70202441						
L-L-M-DAIRY GAMBLER POKER	USA 73757251						
L-L-M-DAIRY GERARD DORIS-ET	USA 70202447						
L-L-M-DAIRY GOLD C SASSY-ET	USA 70202474						
L-L-M-DAIRY GOLD CHIP DELLA	USA 70202478						
L-L-M-DAIRY GOLD CHIP POLLY	USA 70202472						
L-L-M-DAIRY GOLDC SUNDAY-ET	USA 70202468						
L-L-M-DAIRY GOLDWN PATSY-ET	USA 66212790						
L-L-M-DAIRY HAL SPOTLITE-ET	USA 72758205						
L-L-M-DAIRY HALOG SHADOW-ET	USA 72758227						
L-L-M-DAIRY HALOG SIESTA-ET	USA 72758206						
L-L-M-DAIRY HALOGEN SEXY-ET	USA 72758213						
L-L-M-DAIRY HEADLIN POLYANN	USA 73757155						
L-L-M-DAIRY HOMERUN DARARAE	840003130430206						
L-L-M-DAIRY ITO DALMACE	USA 135265149						
L-L-M-DAIRY J STREAM PROCKY	USA 64955263						
L-L-M-DAIRY JABIR DALADY-ET	USA 72758209						
L-L-M-DAIRY JABIR DENISE	USA 73757230						
L-L-M-DAIRY JABIR PHARAH-ET	USA 73757171						
L-L-M-DAIRY JABIR PHERN-ET	USA 73757173						
L-L-M-DAIRY JABIR PHRAN-ET	USA 73757172						
L-L-M-DAIRY JACEY PEPPER-ET	USA 72758185						
L-L-M-DAIRY JACEY PERCH-ET	USA 72758219						
L-L-M-DAIRY JACEY PHEBE	USA 73757182						
L-L-M-DAIRY JACEY PHLORA-ET	USA 72758224						
L-L-M-DAIRY JACEY PRIMA-ET	USA 72758201						
L-L-M-DAIRY JACEY PUN-ET	USA 72758218						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY JACKMAN PRO-ET	USA 72758168			C			
L-L-M-DAIRY JACKMN PROXY-ET	USA 72758169						
L-L-M-DAIRY JCKMN PHAZER-ET	USA 72758166			C			
L-L-M-DAIRY JEEVES PRESLEY	USA 66212773						
L-L-M-DAIRY JETSET DAISY	USA 73757162						
L-L-M-DAIRY JETSET WAZOO	840003130430205						
L-L-M-DAIRY JOSUPER PIRJO	840003130430195						
L-L-M-DAIRY KINGBOY DEMI-ET	840003130430193						
L-L-M-DAIRY KINGBOY PANDA	840003130430228						
L-L-M-DAIRY KINGBOY PEGGY	840003130430199						
L-L-M-DAIRY KINGBOY PENNY	840003130430200						
L-L-M-DAIRY KINGBOY PRAISE	USA 73757218						
L-L-M-DAIRY KINGBOY SABLE	840003130430210						
L-L-M-DAIRY KINGBOY SIGRID	840003130430196						
L-L-M-DAIRY KINGBY MEGAN-ET	USA 73757209						
L-L-M-DAIRY KINGBY MISSY-ET	USA 73757213						
L-L-M-DAIRY KINGBY PEPIN-ET	USA 73757212						
L-L-M-DAIRY KINGBY PRIMO-ET	USA 73757219						
L-L-M-DAIRY KNG PATRICIA-ET	USA 73757215						
L-L-M-DAIRY LARGE DEKALB-ET	USA 70202488						
L-L-M-DAIRY LARGE DRU-ET	USA 71640100						
L-L-M-DAIRY LARGE PLACK-ET	USA 70202489						
L-L-M-DAIRY LARGE POSY-ET	USA 70202495						
L-L-M-DAIRY LARGE PRISCA-ET	USA 71640097						
L-L-M-DAIRY LATMER POLAR-ET	USA 72758140						1
L-L-M-DAIRY LATMR PHANCY-ET	USA 72758146						1
L-L-M-DAIRY LEXOR PREP	USA 71640155						
L-L-M-DAIRY LIGHTING DESIRE	USA 70202483						
L-L-M-DAIRY LIGHTING WESTON	USA 71640118						
L-L-M-DAIRY LIGHTNG DARNELL	USA 71640129						
L-L-M-DAIRY LIGHTNG PERMIT	USA 70202498			C			
L-L-M-DAIRY LIGHTNING PLUM	USA 70202485						
L-L-M-DAIRY LITH PASSION-ET	USA 71640166			C			
L-L-M-DAIRY LITH PHILLIS-ET	USA 71640186						
L-L-M-DAIRY LITH PRANCER-ET	USA 71640191						
L-L-M-DAIRY LITHIUM PEZ-ET	USA 71640167			C			
L-L-M-DAIRY LITHM PAPINA-ET	USA 71640161						
L-L-M-DAIRY LITHM PETTIS-ET	USA 71640165			C			
L-L-M-DAIRY LITHM PRICEE-ET	USA 71640188						
L-L-M-DAIRY LITHUM PHLOX-ET	USA 71640130						
L-L-M-DAIRY LRGE DRUCILA-ET	USA 71640101						
L-L-M-DAIRY LRGE PRESICE-ET	USA 70202499						
L-L-M-DAIRY MAGI PHAILIN-ET	USA 73757203					C	
L-L-M-DAIRY MAGIC PHLORA-ET	USA 73757201					C	
L-L-M-DAIRY MAGIC PUPPET-ET	USA 73757193					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY MAGICD PAZER-ET	USA 73757185						
L-L-M-DAIRY MAGICD PRIMA-ET	USA 73757195					C	
L-L-M-DAIRY MASSEY PALUSA	USA 72758133						
L-L-M-DAIRY MATHIE WYE 1625	USA 62502960						
L-L-M-DAIRY MAY PARADISE-ET	USA 71640157						
L-L-M-DAIRY MAY SILVER-ET	USA 72758130						
L-L-M-DAIRY MAY SUNSHINE-ET	USA 71640196			C			
L-L-M-DAIRY MAYF PERFECT-ET	USA 71640152			C			
L-L-M-DAIRY MAYF PHEONIX-ET	USA 71640162			C			
L-L-M-DAIRY MAYFIELD JAZZ	USA 72758144						
L-L-M-DAIRY MAYFIELD SAGE-ET	USA 71640195						
L-L-M-DAIRY MCCUTCHEN PEARL	USA 73757179						
L-L-M-DAIRY MCCUTCHEN PUN	USA 73757240						
L-L-M-DAIRY MCCUTCHEN SILK	USA 73757231						
L-L-M-DAIRY MCCUTCHN DALLAS	840003130430176						
L-L-M-DAIRY MCCUTCHN DUBOIS	USA 73757208						
L-L-M-DAIRY MCCUTCHN PLEDGE	840003130430185						
L-L-M-DAIRY MCCUTCHN HERSHEY	USA 73757234						
L-L-M-DAIRY MCCUTCHN POTLUCK	USA 73757236						
L-L-M-DAIRY MILION DORIA-ET	USA 68756699						
L-L-M-DAIRY MILION PAOLA-ET	USA 66212796						
L-L-M-DAIRY MILLION PESO-ET	USA 66212785						
L-L-M-DAIRY MILLION PRIZE	USA 68756740						
L-L-M-DAIRY MOGUL PAULA	USA 71640172						
L-L-M-DAIRY MOGUL PENTRES	USA 71640176						
L-L-M-DAIRY MOGUL PIER-ET	USA 71640106						
L-L-M-DAIRY MONT POLITICIAN	840003130430224						
L-L-M-DAIRY MONTER PINEAPPLE	840003130430188						
L-L-M-DAIRY MONTEREY CHER	USA 73757233						
L-L-M-DAIRY MONTEREY PRIDE	840003130430181						
L-L-M-DAIRY MONTROSS PEANUT	USA 73757216						
L-L-M-DAIRY MONTRY FAITH-ET	USA 73757238						
L-L-M-DAIRY NOMNE PETULA-ET	USA 73757192						
L-L-M-DAIRY NUM UNO PEAK-ET	USA 71640140						
L-L-M-DAIRY NUMR UNO PAZ-ET	USA 71640139						
L-L-M-DAIRY O-STYLE HEATHER	USA 70202473						
L-L-M-DAIRY OAK PERFECT-ET	USA 72758155						
L-L-M-DAIRY OAK PHELINA-ET	USA 72758149						
L-L-M-DAIRY OAK PIXL-ET	USA 72758190						
L-L-M-DAIRY OAK PRIME-ET	USA 72758176						
L-L-M-DAIRY OAK SAPPHIRE	USA 72758182						
L-L-M-DAIRY OAK SPIRIT	USA 72758171						
L-L-M-DAIRY OAKEY POKEY-ET	USA 72758165						
L-L-M-DAIRY OBSERVER LUCKY	USA 71640103						
L-L-M-DAIRY OBSERVLR LOTTERY	USA 70202430						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY OBSRVER PARAGON	USA 70202403						
L-L-M-DAIRY OBSRVR PABLA-ET	USA 70202420						
L-L-M-DAIRY OBSRVR PIZAZ-ET	USA 70202416						
L-L-M-DAIRY OBSVR PACKER-ET	USA 70202417						
L-L-M-DAIRY OBSVR PLATTA-ET	USA 70202415						
L-L-M-DAIRY OBSVR PRESTA-ET	USA 70202422						
L-L-M-DAIRY OSMOND DESTA	USA 70202462						
L-L-M-DAIRY OSMOND DOUGET	USA 70202457						
L-L-M-DAIRY OSMOND HAZEL	USA 71640160						
L-L-M-DAIRY OSMOND PLATVIL	USA 71640163						
L-L-M-DAIRY PARK P PARIS-ET	USA 71640171						
L-L-M-DAIRY PARKER DELORES	USA 70202410						
L-L-M-DAIRY PARKER DEZ-ET	USA 70202445						
L-L-M-DAIRY PARKS DARK	840003130430174						
L-L-M-DAIRY PERSIS CRI-ET	USA 62769124	C					
L-L-M-DAIRY PHIRST LADY-ET	USA 72758180						
L-L-M-DAIRY PLAN PINKY-ET	USA 71640123						
L-L-M-DAIRY PLAN PREVAIL-ET	USA 70202486						
L-L-M-DAIRY PLANT DAFNEE-ET	USA 66212784						
L-L-M-DAIRY PLNET DENARO-ET	USA 68756703						
L-L-M-DAIRY PONDE PIEPER-ET	USA 73757157						
L-L-M-DAIRY PONDER HILARY	USA 72758184						
L-L-M-DAIRY PONDER PHLO-ET	USA 73757161						
L-L-M-DAIRY PREDESTIN PAINT	USA 73757196						3
L-L-M-DAIRY PREDESTIN SIBYL	USA 73757197						
L-L-M-DAIRY PRES POMEGRNATE	840003130430189			C			
L-L-M-DAIRY PRES WASHINGTON	840003130430183						
L-L-M-DAIRY PRESNT DORY-TW	USA 73757229		C				
L-L-M-DAIRY PRESNT DISCO-ET	USA 73757244						
L-L-M-DAIRY PRESIDENT DARLA	USA 73757252						
L-L-M-DAIRY PRESIDENT SIRI	USA 73757227						
L-L-M-DAIRY PRESIDENT DAY-TW	USA 73757228		C				
L-L-M-DAIRY PRESIDENT HOOVER	USA 73757207						
L-L-M-DAIRY PRESIDENT PIERCE	USA 73757226						
L-L-M-DAIRY PRESIDENT PUZZLE	USA 73757237						
L-L-M-DAIRY PRESIDENT STACIE	USA 73757232						
L-L-M-DAIRY PRESIDENT TERESA	840003130430203						
L-L-M-DAIRY PRESIDENT DART-ET	USA 73757250						
L-L-M-DAIRY PRESIDENT ECHO-ET	840003130430182					C	
L-L-M-DAIRY PRETTY GIRL-ET	USA 71640111						
L-L-M-DAIRY PRICELESS-ET	USA 73757184						
L-L-M-DAIRY PROF PRIMARY-ET	840003130430225						
L-L-M-DAIRY PROMO DEVIKA	USA 73757198						
L-L-M-DAIRY PROMO HECTOR	USA 73757217						
L-L-M-DAIRY PRSDT DEIONO-ET	840003130430173						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

19

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY RMOS DESIRAE-ET	USA 66212771						
L-L-M-DAIRY ROBUST DARJA	840003130430204						
L-L-M-DAIRY ROBUST POW-ET	840003130430186						
L-L-M-DAIRY ROBUST PURDY-ET	840003130430180						
L-L-M-DAIRY RUBCN PORSCH-ET	840003130430219						
L-L-M-DAIRY RUBICON DAY RAE	840003130430217						
L-L-M-DAIRY RUBICON DELL	840003130430229						
L-L-M-DAIRY RUBICON DRONE	840003130430218						
L-L-M-DAIRY RUBICON PENCIL	840003130430212						
L-L-M-DAIRY S S PANAMA-ET	USA 71640142						
L-L-M-DAIRY S S PERU-ET	USA 71640143						
L-L-M-DAIRY S S PHAWN-ET	USA 71640144						
L-L-M-DAIRY S S SWEETIE-ET	USA 72758134						
L-L-M-DAIRY S S WAUPACA	USA 72758179						
L-L-M-DAIRY SALVA PHANCY-ET	USA 72758162						
L-L-M-DAIRY SALVA PUMKIN-ET	USA 72758161						
L-L-M-DAIRY SALVATORE DROID	USA 72758181						
L-L-M-DAIRY SANCHEZ PARADE	USA 70202461						
L-L-M-DAIRY SANCHEZ WEST	USA 72758145						
L-L-M-DAIRY SHAMR SECRET-ET	USA 70202475						
L-L-M-DAIRY SHAMRCK PINACLE	USA 71640194						
L-L-M-DAIRY SHAMRK PREMO-ET	USA 70202452						
L-L-M-DAIRY SHAMRK SULSA-ET	USA 70202470						
L-L-M-DAIRY SHAMROCK DEIDRE	USA 70202490						
L-L-M-DAIRY SHAMROCK PAW-ET	USA 70202454						
L-L-M-DAIRY SHAMROCK SHADOW	USA 72758207						
L-L-M-DAIRY SHAMROCK TESS	USA 71640180					C	3
L-L-M-DAIRY SHAN SYLVIA	USA 72758147						
L-L-M-DAIRY SHANOSBER HOPE	USA 73757175						
L-L-M-DAIRY SHMRCK SPICE-ET	USA 70202460						
L-L-M-DAIRY SHMRCK SUGAR-ET	USA 70202459						
L-L-M-DAIRY SHRCK SKYLER-ET	USA 70202493						
L-L-M-DAIRY SHROCK DANII-TW	USA 72758137						
L-L-M-DAIRY SHROCK DIXIE-TW	USA 72758136						
L-L-M-DAIRY SHT PARADIGM-ET	USA 66212764					C	
L-L-M-DAIRY SILVER PRINT	840003130430209						
L-L-M-DAIRY SNOMAN PENNY-ET	USA 70202418			C			
L-L-M-DAIRY SNOWM PHAITH-ET	USA 72758142						
L-L-M-DAIRY SNOWM PHEPHE-ET	USA 72758141						
L-L-M-DAIRY SNOWMAN BREN	USA 71640169						
L-L-M-DAIRY SNWMBL PHOTO-ET	USA 72758139						
L-L-M-DAIRY SOCRATES DELISH	840003130430215						
L-L-M-DAIRY SRK PRINCESS-ET	USA 70202464						
L-L-M-DAIRY SUPER DOTCOM-ET	USA 68756791						
L-L-M-DAIRY SUPER PAMIDA	USA 68756783						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
L-L-M-DAIRY SUPER S PEBBLES	USA 73757189						
L-L-M-DAIRY SUPER SIR DODGE	USA 73757183						
L-L-M-DAIRY SUPER SIRE PERV	USA 73757224						
L-L-M-DAIRY TEACHER PHRIDAY	840003130430187						
L-L-M-DAIRY TEMPO DELFINA	USA 71640137						
L-L-M-DAIRY TRIGGER HICK	USA 70202450						
L-L-M-DAIRY TROY ECLIPSE	840003130430192						
L-L-M-DAIRY TROY PANIC	USA 73757249						
L-L-M-DAIRY TROY PEGEEN	840003130430221						
L-L-M-DAIRY TROY PRECISION	USA 73757220						
L-L-M-DAIRY WINDSOR PAT	USA 73757235						
L-L-M-DAIRY WINDSOR SHOT-ET	USA 72758197						
L-MAPLES ADVENT CAIT-RED	USA 138596709						
L-MAPLES AR CATALINA-RED-ET	USA 73570285						
L-MAPLES DEFIANT CHARO-ET	840003130423249						
L-MAPLES HVEZDA CALLI-RED	USA 71254967						
L-RAE TOYSTORY FONDUE	USA 138152046		C				
L-RIDGE-VIEW DURHAM PATRICA	USA 60213234						
L-RUTTER MILLION 143	USA 68896383	C				C	
L-TERPSTRA SHOTTLE ELLIE	USA 142097847					C	
L-V-R MICH MISSY MYSTERY	USA 137940961						1
L-V-R MORGAN DUNDEE	USA 65313744						
LA CIGOLINA NORA	ITA 98990228027					C	
LA FELCE SERETTA-ET	ITA 17990361929						1
LA PORTEA BOLTON RAPHIA-ET	ITA103990007652						
LA PRESENTATION ALANA	CAN 103473185						
LA PRESENTATION BEATRICE-ET	CAN 103473190						
LA PRESENTATION BOHEME-ET	CAN 102327685						
LA PRESENTATION BRIGITE-ET	CAN 103473205						
LA PRESENTATION CAMILLIA	CAN 105585673						
LA PRESENTATION CLAVETTE-ET	CAN 101431932	C					
LA PRESENTATION DARLING-ET	CAN 102327755						
LA PRESENTATION DIALYSE-ET	CAN 101431983						
LA PRESENTATION DIORIFIC	CAN 7261188						
LA PRESENTATION DIORITE	CAN 100341758						
LA PRESENTATION DORY 3168-ET	CAN 103473168						
LA PRESENTATION GOALETTE-ET	CAN 100341782						
LA PRESENTATION GOLDWYN DAHLIA	CAN 103498165						
LA PRESENTATION KIRSTIE-ET	CAN 104112302						
LA PRESENTATION LEONA-ET	CAN 103473215						1
LA PRESENTATION LINETTE 2366	CAN 104112366						
LA PRESENTATION SAMBA-ET	CAN 101431881						
LA PRESENTATION SUZETTE-RED-ET	USA 170201919						
LA PRESENTATION YSEULE-ET	CAN 100341705						
LA SEIGNERIE EMYRSE LEXOR-ET	CAN 107555240						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LA SORGENTE ROYAL ESTASI-ET	ITA 19990676484		C				
LA-CA-DE-LE ATLANTIC 4815	USA 72971529			C			
LA-CA-DE-LE BACCARAT 4557	USA 72251319						
LA-CA-DE-LE BRADNICK LIZZY	840003132527504						
LA-CA-DE-LE BRONCO 3705	USA 69838466			C			
LA-CA-DE-LE BRONCO 3737	USA 69838498						
LA-CA-DE-LE CROWN VICTORIA	USA 72251349			C			1
LA-CA-DE-LE DAY 4939	USA 73564471						
LA-CA-DE-LE DAY 5686	840003131146692						
LA-CA-DE-LE DENVER ILEEN-ET	840003131146652						
LA-CA-DE-LE DENVER INEZ-ET	840003131146638						
LA-CA-DE-LE DENVER IRENE-ET	840003131146640						
LA-CA-DE-LE DENVER IRIS-ET	840003131146645						
LA-CA-DE-LE DENVER IZZY-ET	840003131146636						
LA-CA-DE-LE DOBERMAN 4468	USA 71986539						
LA-CA-DE-LE DONATELLO 4932	USA 73564464	C					
LA-CA-DE-LE DONATELLO 5008	USA 73564540						
LA-CA-DE-LE DOORMAN 5463	840003129037538					C	
LA-CA-DE-LE DORCY 3821	USA 70109079						
LA-CA-DE-LE DORMAN LILA-ET	840003132527370					C	
LA-CA-DE-LE DURBIN 5433	840003129037508						
LA-CA-DE-LE EVERGLAD 4381	USA 71678964			C			
LA-CA-DE-LE FLAWLESS 4237	USA 71356615						
LA-CA-DE-LE FREDDIE 3719	USA 69838480						
LA-CA-DE-LE G W ATWOOD 4792	USA 72971506						
LA-CA-DE-LE G W ATWOOD 4799	USA 72971513						
LA-CA-DE-LE GABOR 3766	USA 69838527						
LA-CA-DE-LE GABOR 3783	USA 69838544						
LA-CA-DE-LE GABOR 3831	USA 70109089						
LA-CA-DE-LE GABOR 3839	USA 70109097						
LA-CA-DE-LE GARRETT 4484	USA 71986555						
LA-CA-DE-LE GREGARIOUS 5663	840003131146669						
LA-CA-DE-LE HALOGEN 5092-ET	USA 73564624						
LA-CA-DE-LE HALOGEN 5093-ET	USA 73564625						
LA-CA-DE-LE HALOGEN 5104-ET	USA 74110166						
LA-CA-DE-LE HALOGEN 5111	USA 74110173						
LA-CA-DE-LE JACEY 5049	USA 73564581						
LA-CA-DE-LE JACEY 5133	USA 74110195						
LA-CA-DE-LE JOCK 4338	USA 71678921			C			
LA-CA-DE-LE JUGGERNAUT 5124	USA 74110186				C		
LA-CA-DE-LE MANIFOLD 4039	USA 70724783						
LA-CA-DE-LE MANIFOLD 4462	USA 71986533			C			
LA-CA-DE-LE MANIFOLD 4467	USA 71986538						
LA-CA-DE-LE MANIFOLD 4485	USA 71986556			C			
LA-CA-DE-LE MANIFOLD 4535	USA 72251297						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LA-CA-DE-LE MCCUTCHEN 5467	840003129037542						
LA-CA-DE-LE MCCUTCHEN 5563	840003131146569						
LA-CA-DE-LE MESMER 5638	840003131146644						
LA-CA-DE-LE MOGUL 5047	USA 73564579						
LA-CA-DE-LE MOGUL 5129	USA 74110191						
LA-CA-DE-LE MOGUL 5200	USA 74110262						
LA-CA-DE-LE MOGUL 5409	840003129037484						
LA-CA-DE-LE MOGUL 5614	840003131146620						
LA-CA-DE-LE MOGUL 5615	840003131146621						
LA-CA-DE-LE MOGUL 5627	840003131146633						
LA-CA-DE-LE MOGUL 5676	840003131146682						
LA-CA-DE-LE NOMINEE 5016	USA 73564548						
LA-CA-DE-LE NOMINEE 5103-ET	USA 74110165						
LA-CA-DE-LE NUMERO UNO 5084	USA 73564616						
LA-CA-DE-LE NUMERO UNO 5096	USA 73564628						
LA-CA-DE-LE NUMERO UNO 5113	USA 74110175						
LA-CA-DE-LE NUMERO UNO 5123	USA 74110185						
LA-CA-DE-LE NUMERO UNO 5130	USA 74110192						
LA-CA-DE-LE NUMERO UNO 5220	USA 74110282			C			
LA-CA-DE-LE NUMERO UNO 5432	840003129037507						3
LA-CA-DE-LE OBSERVER 3925	USA 70359023						
LA-CA-DE-LE PETY 5532	840003131146538						
LA-CA-DE-LE PLANET 4068	USA 70724812						
LA-CA-DE-LE PULSAR 5412-ET	840003129037487						
LA-CA-DE-LE REGAN 5393	840003129037468						
LA-CA-DE-LE RENEGADE 5687	840003131146693						
LA-CA-DE-LE SUPER 3569	USA 69167938						
LA-CA-DE-LE SUPERSIRE 5380	840003129037455						
LA-CA-DE-LE SUPERSIRE 5447	840003129037522						
LA-CA-DE-LE SUPERSIRE 5544	840003131146550						
LA-CA-DE-LE SUPERSIRE 5552	840003131146558						
LA-CA-DE-LE SUPERSIRE 5599	840003131146605						
LA-CA-DE-LE TALENT 3024	USA 65377765						1
LA-CA-DE-LE TEACHER 5164	USA 74110226		C				
LA-DEE HI-METRO VERONICA	USA 62170732						
LA-DEE LOU DESTINY	USA 64348038						
LA-DEE ZENITH MANDY	USA 62710326						
LA-FOLLETTE ALEX ALISHA-ET	USA 68664357						
LA-FOLLETTE BRADNK ADAIR-ET	USA 71302884						
LA-FOLLETTE BRADNK ADEEN-ET	USA 71302883						1
LA-FOLLETTE BRADNK ADEL-ET	USA 71302882						1
LA-FOLLETTE EPIC KAYE	USA 71302878						
LA-FOLLETTE HDLNR PAOLI	USA 71302955						
LA-FOLLETTE HEADLINR DEENA	USA 71302910						
LA-FOLLETTE LEXOR COLLEEN	USA 71302889						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LA-FOLLETTE MAGICAL PAM	USA 62619776						
LA-FOLLETTE MEGASIRE AMAZE	USA 71302949						
LA-FOLLETTE MEGASIRE CARA	USA 71302953						
LA-FOLLETTE MOGL ALABAMA-ET	USA 71302888						
LA-FOLLETTE MOGL AMBER-ET	USA 71302891						
LA-FOLLETTE RR ARI-RED-ET	USA 71302900						1
LA-FOLLETTE SNOW LISA	USA 71302917						
LA-FOLLETTE SUPERSIRE DESTA	USA 71302951						
LA-FOLLETTE SUPERSIRE KELLY	USA 71302937						
LA-FOLLETTE SUPERSIRE PIXEL	USA 71302936					C	
LA-FOSTER ADAM ARLENE-ET	USA 136284127						
LA-FOSTER ASTRNMCAL ANNA-ET	USA 135536173						
LA-FOSTER ASTRO ANDREA-ET	USA 136098915						
LA-FOSTER DUNDEE ADDIE-ET	USA 138271918						
LA-FOSTER ROY ROSIE-O-ET	USA 136540029						
LA-FOSTER TALENT HOLLY 5	USA 139290062						1
LA-JAN ALEXANDER LOZANN	USA 69273770						3
LA-JAN BOLTON FARM	USA 69999867						
LA-JAN JEEVES DAGS	USA 69999831						
LA-PAR 1984 BOLTON 2424	USA 52992424						
LA-PAR 2054 PLANET 2763	USA 52992763						
LA-PAR 2148 LITTORAL 2628	USA 68591222						
LA-PAR PAX HOT TAMALE-RED	USA 142193655						
LA-ROSE JERRICK JULIA	USA 142549447	C					
LA-TROOPERS BOOKMAN 338-ET	USA 63518251						
LACLAR BUCKEYE SHERRY	USA 137988510						
LACLAR CHAMPION ANASTEE	USA 135864816						
LACLAR GIVENCHY IVANESSA	USA 136985907						
LACLAR JAKIN BEAUTY	USA 136701280						
LACLAR MERCHANT INDY	USA 136701301						
LACLAR MTOTO ANABELLE	USA 134749150						
LACLAR OMAN ANOLA-ET	USA 135930548			C			
LACLAR PLANET JAYME	USA 69304259						
LACLAR PRESCOTT LADYBLITZ	USA 17189699						
LACLAR RAMSES KIRA	USA 136308058			C			
LACLAR REGGIE ANANA-ET	USA 136095565						
LACLAR REGGIE ANNE-ET	USA 136343529						
LACLAR SOSA AMANDA-ET	USA 136425740						
LACLAR STORMATIC FROSTY	USA 134724580						1
LACLAR TITANIC ARIKA-ET	USA 135930520						1
LACLAR TITANIC LARA	USA 135818534	C					1
LACLAR TITANIC SUNDAE	USA 136239574						
LACTOMONT CSCD CALYPSO-ET	USA 72693273						
LACTOMONT CSCD CAMILIA-ET	USA 72693275						
LACTOMONT CSCD CARTOON-ET	USA 72693274						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LACTOMONT DENZEL CARMALA-ET	USA 72641525		C				
LACTOMONT DENZEL CARMANY-ET	USA 72641523						
LACTOMONT DENZEL CARMIA-ET	USA 72641524						
LACTOMONT DENZEL CARMIYA-ET	USA 72641520						
LACTOMONT DENZEL CARMLEE-ET	USA 72641528						
LACTOMONT DENZEL CARMLYN-ET	USA 72641529						
LACTOMONT DENZEL CARMY-ET	USA 72641526						
LACTOMONT DENZEL CARMYLA-ET	USA 72641530		C				
LACTOMONT LOAK OAK-ET	CAN 108527036						1
LACTOMONT LOCASS SARGEANT-ET	CAN 107684406						
LACTOMONT LTHM CARMALUNA-ET	USA 72608076						
LACTOMONT MC CARMELLIA-ET	USA 72641527						
LACTOMONT MCTCN CARMALEA-ET	USA 72590235						
LACTOMONT MCTCN CARMALYA-ET	USA 72590237						
LACTOMONT MTCN CARMALISA-ET	USA 72590236						
LACTOMONT NIKOTA SARGEANT-ET	CAN 107684409						
LACTOMONT NIKOTO SARGEANT-ET	CAN 107684410						
LACTOMONT PETRON LARISSA-ET	USA 72641522						
LACTOMONT PETRONE LARKIN-ET	USA 72641521						
LACTOMONT PETRONE LHASA-ET	USA 72641560						1
LACTOMONT SALEEN CARMEO-ET	USA 72641559						
LAD-BINE ATWOOD COOLATA	USA 70433239						
LAD-BINE GUTHRIE CRISPY	USA 70433213						
LAD-BINE HAYAS HOTTIE	840003128590844						
LAD-BINE SPUR JAVA	840003131110252			C			
LADIES FIRST GOLDWYN BETH	USA 139943362						1
LADIES-FIRST AMB BRILYNN	840003010991523						
LADIES-FIRST ARM BRANDI-ET	USA 71588830						
LADIES-FIRST ARMBROS BONITA	USA 71680370						
LADIES-FIRST ATW BETHANY-ET	USA 70885444					C	
LADIES-FIRST ATW BRIANNA-ET	USA 70885445						
LADIES-FIRST BOAT ANCHOR	840003013072492						
LADIES-FIRST BRACELET-ET	840003124627782						
LADIES-FIRST BREEZE 6222-ET	USA 72150405						
LADIES-FIRST BRIELLA-ET	USA 66985615						
LADIES-FIRST CASH BANK-ET	840003013189309						
LADIES-FIRST CHEV BLAZER-ET	840003124837948						
LADIES-FIRST CHEV BRONZE-ET	840003124837954						
LADIES-FIRST DET BAMBOO-ET	840003010991592						
LADIES-FIRST DETR BRIGHT-ET	840003013072459						
LADIES-FIRST DTRMN BUNNY-ET	USA 73209142						
LADIES-FIRST E BRIA 6233-ET	USA 72150416					C	
LADIES-FIRST EPIC BREEZE-ET	840003009533534						
LADIES-FIRST GOLD BLING	840003013072490						
LADIES-FIRST JACEY BANANA	840003013072497						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADIES-FIRST JOBO 6698-ET	USA 73209217						
LADIES-FIRST KB BARISTA-ET	840003126667792						
LADIES-FIRST KB BRAVO-ET	840003126667788						
LADIES-FIRST KRUN BAGEL-ET	840003010991536						
LADIES-FIRST L BLIZZARD-ET	840003010991533						
LADIES-FIRST LAT BUBBLES-ET	840003010991532						
LADIES-FIRST LXOR BANGLE-ET	840003009533693						
LADIES-FIRST MADELYN-ET	USA 73209190						
LADIES-FIRST MGL BRIDGET-ET	USA 70268922					C	
LADIES-FIRST MOGUL BAMBI-ET	USA 70268924						
LADIES-FIRST MOGUL BRIE-ET	USA 70268923						
LADIES-FIRST NUMERO 5886-ET	USA 72656910						
LADIES-FIRST OAK BRISTOL-ET	840003010991595						
LADIES-FIRST OBSV BELLA-ET	USA 69892578					C	
LADIES-FIRST OBSV BROOKE-ET	USA 69892579					C	
LADIES-FIRST P BAYLEE-ET	840003010975117						
LADIES-FIRST PAL BREEZE-ET	USA 69892622					C	
LADIES-FIRST PUNCH BREYA-ET	840003010991515						
LADIES-FIRST PUNCH BRITT-ET	840003010991514						
LADIES-FIRST RUBICON DOS	USA 74447751						
LADIES-FIRST SHMRK BASIL-ET	USA 71588849						
LADIES-FIRST SS BEVERLY-ET	USA 72340739						
LADIES-FIRST SS BLESSING-ET	USA 72340744						
LADIES-FIRST TM BLACKBERRY	840003128162389						
LADIES-FIRST WINDHAMMER VAL	USA 70885391						
LADINODALE ADVENT AMY2-RED	USA 63524210						1
LADINODALE ALEXSIS-RED-ET	USA 65919404						
LADINODALE ALISE P-RED-ET	USA 68990582						
LADINODALE AMANDA-RED-ET	USA 65919399						
LADINODALE B-NICK LYDIA-ET	USA 70433788						
LADINODALE BAXTER ALMA	USA 63524249						
LADINODALE COLT ASTAIRE-RED	USA 66895500						
LADINODALE G CHIP ASHLEY	USA 71350903						
LADINODALE GOLDWYN PEANUT	USA 63524233						
LADINODALE S STORM ADELA-ET	USA 62225687						1
LADINODALE SS ALI-RED-ET	USA 63524206						1
LADINODALE TALNT AMY-RED-ET	USA 61326997						1
LADSON BUCKEYE BUCKIE	USA 140276929						
LADSON FREDDIE BUFF-ET	USA 140649365						
LADSON JERRICK BRICK-ET	USA 141928258						
LADSON O-MAN O-DART-ET	USA 135797307			C			
LADSON SHOTTLE SASSIE	USA 143142773						
LADY CLAY-HILL SHT MILKY-ET	USA 140273962			C		C	
LADY MACLAND GOLD GABBY	USA 139575819						3
LADY MCGUCCI SUNSHINE-ET	USA 74609665						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADY PRICE-VIEW CASPER	USA 141171638						
LADY REDBURST LIBBY-RED-ET	840003011669775						2
LADY SABASTIAN CATE 8556	USA 62375963						
LADY WHITE LIGHTNING	USA 55617221						
LADY-ALICIA ALRIGHTY-ET	USA 142860672						
LADY-ALICIA BRDNIK ARIEL-ET	USA 142756319						
LADY-ALICIA JEVES AKIVA-ET	USA 140529447						3
LADY-ALICIA JEVES AMAYA-ET	USA 140529465						
LADY-ALICIA JEVS ANSLEE-ET	USA 140565731						3
LADY-ALICIA MILON ABBA-ET	USA 140605260		C				
LADY-ALICIA MILON ADINA-ET	USA 140605233		C				3
LADY-ALICIA MILON ALIZA-ET	USA 140605279						3
LADY-ALICIA MILON ANGEL-ET	USA 140605242						
LADY-ALICIA MILON AUBRIE-ET	USA 140605251		C				3
LADY-ALICIA MILON AVA-ET	USA 140605288						3
LADY-ALICIA SANCHZ ADORE-ET	USA 140529492						
LADY-SECOND-CENTURY ALMOND	USA 142408971						
LADY-SECOND-CENTURY KALU	USA 141315469						
LADY-SECOND-CENTURY M JULY	USA 142409093						
LADYS-CATOCTIN RACER HATTIE	USA 64673838						
LADYS-MAN HVEZD APOTHIC-RED	840003014200935						
LADYS-MANOR 1 SNOWFLURRY-ET	840003126637214						
LADYS-MANOR 1ST SEAGUL-ET	840003129373520						
LADYS-MANOR 1ST SEASIDE-ET	840003129373528						
LADYS-MANOR A RD SHANEL-ET	840003013129353						
LADYS-MANOR A RD SHANTEL-ET	840003013129352						
LADYS-MANOR ABERLIN AMEEVA	USA 70875734						
LADYS-MANOR ALEX GINNA-ET	USA 68803335						
LADYS-MANOR ALEX SHAUNA-ET	USA 66676345						
LADYS-MANOR ALEX SHAWNA-ET	USA 66676349						1
LADYS-MANOR ALEXANDER WIZ	USA 68803294						
LADYS-MANOR ALLANAS DORI-ET	USA 64673789						1
LADYS-MANOR AM ESCAPADE-ET	USA 70875721						
LADYS-MANOR AM TASHA-ET	USA 61801781						
LADYS-MANOR AMELIA O-ET	USA 135086119						
LADYS-MANOR AMERICA-RED-ET	840003133394975						
LADYS-MANOR AMRYN SHAW	840003133394969						
LADYS-MANOR ANCR GILLIAN-ET	840003133394979						
LADYS-MANOR ANGIE	USA 61801796						
LADYS-MANOR ANN O SHAN-ET	USA 72233198						
LADYS-MANOR ANTHEA-ET	USA 60209904	C					
LADYS-MANOR ARM SHAWNTAY-ET	USA 70875758						
LADYS-MANOR ARMOR FLODA-ET	840003129373609	C					
LADYS-MANOR ARMOR FLORA-ET	840003129373610	C					
LADYS-MANOR ARMR FLOTUS-ET	840003129373615						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR ARMR FLOWER-ET	840003129373611	C					
LADYS-MANOR ATLAN RD SUGAR	USA 68803351						
LADYS-MANOR AUD SHAWNAY-ET	USA 65756784	C					
LADYS-MANOR AUD SHAWNEE-ET	USA 65756785						
LADYS-MANOR AUD SHAWNTAY-ET	USA 65756779	C					
LADYS-MANOR AUD TRISTA-ET	USA 65756722	C					
LADYS-MANOR AUDEN GRACIELA	USA 64673855						1
LADYS-MANOR AUDEN ODA-ET	USA 65756726	C					
LADYS-MANOR AUDEN OLGA-ET	USA 65756732						
LADYS-MANOR AUDEN SIRENA	USA 64673854						
LADYS-MANOR AUDN D TINA-ET	USA 65756721	C					
LADYS-MANOR AUDN TISH-ET	USA 65756723						
LADYS-MANOR AUDN TRISH-ET	USA 65756724						
LADYS-MANOR AUDRINA-ET	USA 65756799	C					
LADYS-MANOR AX SNOSHAUNA-ET	USA 70875719			C			
LADYS-MANOR BAYONET JOOK	840003133394974						
LADYS-MANOR BELUGA SHARMDGE	840003013129390			C			
LADYS-MANOR BERO GRAY-ET	840003126637190						
LADYS-MANOR BERO OCTAVIA-ET	840003126637188	C					
LADYS-MANOR BLR SHAYLYNN-ET	840003123774989						
LADYS-MANOR BOAST TANSY-ET	840003129373567						
LADYS-MANOR BOAST THYME-ET	840003129373564						
LADYS-MANOR BOASTFUL OCEAN	840003129373554						
LADYS-MANOR BOASTFUL ODA-ET	840003129373575						
LADYS-MANOR BOLO AMIRA-ET	USA 70875742						1
LADYS-MANOR BOMB DABRIA-ET	840003126637142						
LADYS-MANOR BOMB DADUMDUM	840003126637201						
LADYS-MANOR BOMB SHELL-ET	840003126637184						
LADYS-MANOR BOMBERO SUZE-ET	840003123774997						
LADYS-MANOR BOOKEM PALLY-TW	USA 70189442		C				
LADYS-MANOR BOOKM POLLY-TW	USA 70189441						
LADYS-MANOR BTLR SHAYLE-ET	840003123774986						
LADYS-MANOR C OKLAHOMA-ET	840003126637187	C					
LADYS-MANOR CANCN GEISHA-ET	USA 70189426						
LADYS-MANOR CANCUN GERA-ET	USA 70189427						1
LADYS-MANOR CASUAL MIRROR	USA 71593065						
LADYS-MANOR CIV OREGON-ET	840003126637186	C					
LADYS-MANOR CIV OTTAWA-ET	840003126637181						
LADYS-MANOR CIVIL OHIO-ET	840003126637182						
LADYS-MANOR CLARTA CAN GERA	USA 72233199						
LADYS-MANOR COLBY BABY-ET	USA 65756703		C				
LADYS-MANOR COLT ORANGE-RED	USA 70875730						
LADYS-MANOR CORD SHAWNEE-ET	840003013129397						
LADYS-MANOR CRAB GRAPE	840003123774999						
LADYS-MANOR CRBTRE SUSAN	840003123775005						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR CRBTRE SUZIE-ET	840003123774981						
LADYS-MANOR CT SUZAY-ET	840003123774945						
LADYS-MANOR D OPEN AIR-ET	840003129373594	C					
LADYS-MANOR D OPEN DOLL-ET	840003129373605						
LADYS-MANOR D OPEN LE-LE-ET	840003133394931						
LADYS-MANOR DA SHAY	840003126637198						
LADYS-MANOR DAM SNOW	840003129373577						
LADYS-MANOR DAMARS SHAYDA	840003129373525						
LADYS-MANOR DAPHNE DOLL-ET	840003129373608						
LADYS-MANOR DAY SHANDRA	USA 72233214						
LADYS-MANOR DEF DEE DEE-ET	840003123775009						
LADYS-MANOR DEFDR LARK-ET	840003123774936						
LADYS-MANOR DEFDR LASHES-ET	840003123774933						
LADYS-MANOR DEFENDER LACE	840003013129422						
LADYS-MANOR DER OBSIDIAN-ET	840003133394977						
LADYS-MANOR DERBY OPERA-ET	840003133394952						
LADYS-MANOR DESIRE LYNN-ET	840003133394996						
LADYS-MANOR DEYJA GAL-ET	840003126637133						1
LADYS-MANOR DEYJA GEENA-ET	840003126637128						1
LADYS-MANOR DEYJA GIA-ET	840003126637124						
LADYS-MANOR DEYJA GIZ-ET	840003126637138						
LADYS-MANOR DEYJA GRACE-ET	840003126637123						
LADYS-MANOR DFNDR LAMB-ET	840003123774934						
LADYS-MANOR DIMOND SHEEN-ET	840003013129431					C	
LADYS-MANOR DL CLARISSA-ET	USA 72233194						
LADYS-MANOR DL CLARISSE-ET	USA 72233192						
LADYS-MANOR DMRS SILK	840003126637203						
LADYS-MANOR DND SH-DAISY-ET	840003013129427						
LADYS-MANOR DO TRANQUIL-ET	840003133394989					C	
LADYS-MANOR DOLCE SHANIA	USA 70189431						
LADYS-MANOR DOMINIQUE-ET	USA 70189445						
LADYS-MANOR DOOR OPERA-ET	840003013129393						
LADYS-MANOR DOOR SHANNA-ET	840003013129354						
LADYS-MANOR DOOR SHAYDA-ET	USA 72233252						
LADYS-MANOR DOOR SHAYDEN-ET	USA 72233253						
LADYS-MANOR DORCY AMELIA	USA 69547679						
LADYS-MANOR DORCY AMIRA	USA 69547713						1
LADYS-MANOR DORCY ODA	USA 69547657	C					
LADYS-MANOR DRBY LUANNE	840003133394950						
LADYS-MANOR DRBY OPELLA-ET	840003133394953						
LADYS-MANOR DS LYNNE-RED-ET	840003133394998						
LADYS-MANOR DTRMN GINGER-ET	840003013129365						
LADYS-MANOR E OCCASION-ET	840003126637160						
LADYS-MANOR EM ON SHANIA-ET	USA 71592988	C					
LADYS-MANOR EMS SHANNEN-ET	USA 71592992	C					

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR ENTL OLIVIA-ET	840003129373546	C					
LADYS-MANOR EPIC DELANEY-ET	USA 71592998						
LADYS-MANOR FALLON MAIRA-ET	USA 64673823						
LADYS-MANOR FLAME ANNA	840003123774969						
LADYS-MANOR FLAME ODA-ET	840003123774929	C					
LADYS-MANOR FRD GIZELLE-ET	USA 69547709						
LADYS-MANOR FRND GRAYCEN-ET	USA 71593008						1
LADYS-MANOR G KINSEY-ET	USA 70875746			C			
LADYS-MANOR G KINSLEY-ET	USA 70875751			C			1
LADYS-MANOR G KISSEY-ET	USA 70875743			C			
LADYS-MANOR GC AMELIA-ET	USA 70875765						
LADYS-MANOR GER RD GEA-ET	USA 70189454						
LADYS-MANOR GER RD GEO-ET	USA 70189457						1
LADYS-MANOR GER RD GIA-ET	USA 70189453						
LADYS-MANOR GER RD GINA-ET	USA 70189450						1
LADYS-MANOR GER SHAUNA-ET	USA 70189466						
LADYS-MANOR GERA DEAN-ET	USA 72233181						
LADYS-MANOR GERA SHAUNA-ET	USA 70189471						
LADYS-MANOR GERI OSTYLE	USA 70875753						1
LADYS-MANOR GHIRADELLI-ET	USA 72233233						
LADYS-MANOR GIANT MC DABRIA	840003133394983						
LADYS-MANOR GN LAMBRINI-ET	840003123774963						
LADYS-MANOR GOLD AMELIA-ET	USA 62812277						1
LADYS-MANOR GOLD DETROIT-ET	USA 68803385						
LADYS-MANOR GOVERNESS	USA 65756728						
LADYS-MANOR GR DOMINICA-ET	840003123774979						
LADYS-MANOR GR LACHELLE-ET	USA 70875771						
LADYS-MANOR GRACE I AM	USA 70189491						
LADYS-MANOR GRACIE-ET	USA 72233219						
LADYS-MANOR GRACIOU MARY-ET	USA 72233178			C			
LADYS-MANOR GRACIOUS DAY-ET	USA 72233191						1
LADYS-MANOR GRACIOUS MAY-ET	USA 72233189						1
LADYS-MANOR GRACIOUS WIND	USA 70875718						1
LADYS-MANOR GRAF LA-LA-ET	USA 70875772						
LADYS-MANOR GRAFEETI BABY	USA 70875766						1
LADYS-MANOR GRAY-ET	USA 72233224						
LADYS-MANOR GRAYCEN-ET	USA 72233223						1
LADYS-MANOR GREEN SNOSHAWN	840003123774982						
LADYS-MANOR GREG AUDIENCE	840003126637158						
LADYS-MANOR GREG DOVE-ET	840003123774991						
LADYS-MANOR GREG GRAPE	840003133394945						
LADYS-MANOR GREG SS SHAWNEE	840003126637122						
LADYS-MANOR GRF LAUREL-ET	USA 70875774						1
LADYS-MANOR GRF LAUREN-ET	USA 70875773						
LADYS-MANOR GRG DOMENCIA-ET	840003123774977						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR GRG DOMINA-ET	840003123774978						
LADYS-MANOR GRN LANTERN-ET	840003123774962						
LADYS-MANOR HAL OSHAWN	840003123775000						
LADYS-MANOR HALGN DAISY-ET	840003123774931						
LADYS-MANOR HALO ANNA-ET	840003123774990						
LADYS-MANOR HALO TEEMA-ET	840003123774975						
LADYS-MANOR HALOGN TERRA-ET	840003123774973						
LADYS-MANOR HALOGN THEME-ET	840003123774943						
LADYS-MANOR HBERG ANNA-ET	840003133394997						
LADYS-MANOR HBRT AMEERY-ET	840003133394961						
LADYS-MANOR HDLNR SHASTA-ET	USA 72233186						
LADYS-MANOR HDLNR SHAW-ET	USA 71593066						
LADYS-MANOR HDLNR SHAWL-ET	USA 71593067						
LADYS-MANOR HDLR SHASHI-ET	USA 72233269						
LADYS-MANOR HDLR SHASTEE-ET	USA 72233190						
LADYS-MANOR HDLR SHAWNAH-ET	USA 71593069						
LADYS-MANOR HDLR SUSHI-ET	840003013129345						
LADYS-MANOR HG OBSESSION-ET	840003013129411						
LADYS-MANOR HNZ OHANA-ET	840003133394981						
LADYS-MANOR HONEY B SUZE	840003126637139						
LADYS-MANOR HUNT GWENDA-ET	USA 72233237						
LADYS-MANOR HUNT GWNETH-ET	USA 72233238						
LADYS-MANOR IOTA TAYA-ET	USA 70189468	C					
LADYS-MANOR IOTA TYRA-ET	USA 70189459						
LADYS-MANOR J SUP GRAYLEE	840003129373522						
LADYS-MANOR JAB SOLSTICE-ET	840003013129400						
LADYS-MANOR JAB SUNDAY-ET	840003013129386						
LADYS-MANOR JABIR SOLAY-ET	840003013129401						
LADYS-MANOR JABR AMEERY-ET	840003123774947						
LADYS-MANOR JACEY SHAWNTAY	840003123774926						
LADYS-MANOR JAS ALLEXIS-ET	USA 65756754						
LADYS-MANOR JB SATURDAY-ET	840003013129391						
LADYS-MANOR JB SEPTEMBER-ET	840003013129392						
LADYS-MANOR JBIR AMEER-ET	840003123774944						1
LADYS-MANOR JC SNOWBIRD-ET	840003123774971						
LADYS-MANOR JEDI LA-LA-ET	840003133395003						
LADYS-MANOR JEDI LANTERN-ET	840003133395002					C	
LADYS-MANOR JEDI LILLY-ET	840003133395004					C	
LADYS-MANOR JEDI SEAGLOW-ET	840003133395005						
LADYS-MANOR JEEVES GEORGI	USA 68803324						1
LADYS-MANOR JEROD SNWSHAUNA	840003013129339			C			
LADYS-MANOR JET WINE-ET	USA 65756741						
LADYS-MANOR JO CHEDDAR	840003129373614						
LADYS-MANOR JOE JELLO	840003129373524						
LADYS-MANOR KB ADELIA	840003126637155						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR KB AMEEVA	840003126637167						
LADYS-MANOR KB DELISH-ET	840003126637189						
LADYS-MANOR KB DESTINATION	840003126637163						
LADYS-MANOR KB DOLLY-TW	840003133394958			C			
LADYS-MANOR KB LALIQUE-ET	840003126637157						
LADYS-MANOR KB SNOW BIZ-ET	840003126637168						
LADYS-MANOR KB U R GRACE	840003126637156						1
LADYS-MANOR KBOY SAHARA-ET	840003126637127						
LADYS-MANOR KBOY SAIL-ET	840003126637129						
LADYS-MANOR KBOY SASHAY-ET	840003126637126						
LADYS-MANOR KBOY SHADA-ET	840003126637132						
LADYS-MANOR KBOY SHALVA-ET	840003126637134						
LADYS-MANOR KBOY UDAMIRA	840003126637147						
LADYS-MANOR KGIRL OH-ET	840003126637135						
LADYS-MANOR KGIRL OK-ET	840003126637140	C					
LADYS-MANOR L-B AMARETTO-ET	840003013129403						1
LADYS-MANOR L-B CHEDDAR	840003013129410						
LADYS-MANOR L-B GINGERLY	840003013129408						
LADYS-MANOR LA RD SONG-ET	USA 70875701						1
LADYS-MANOR LA RD SUNG-ET	USA 70875706						
LADYS-MANOR LABRN DEONNE-ET	840003123774938						
LADYS-MANOR LAN DECORATE-ET	840003123774930						
LADYS-MANOR LANC AMITY-ET	840003123774983						
LADYS-MANOR LANCOME AMI-ET	840003123774967						
LADYS-MANOR LARGE DEANDRA	840003123774970						
LADYS-MANOR LATIMER MIA	USA 72233248						1
LADYS-MANOR LAYNE GLEEFUL	840003013129375						
LADYS-MANOR LG DORAL-ET	USA 71593019						
LADYS-MANOR LGE DEANDRA-ET	USA 71593018						
LADYS-MANOR LIT SHAUN-ET	USA 71593013						
LADYS-MANOR LITH SHAUNA-ET	USA 71593007						
LADYS-MANOR LITTLE SHAWN-ET	USA 71593010						
LADYS-MANOR LOTTA DESIGN	840003126637179						
LADYS-MANOR LOTTO GIZZY-ET	840003126637170						
LADYS-MANOR LRG DAPHNE-ET	USA 71592985						
LADYS-MANOR MAC D GISELLE	USA 64673843						
LADYS-MANOR MAC O RONI	USA 66676266						
LADYS-MANOR MACK AMINA-ET	840003123774928						3
LADYS-MANOR MACK LAIMA-ET	840003013129436						
LADYS-MANOR MACK LAYLA-ET	840003013129434						
LADYS-MANOR MACK TOPAZ	840003123774980						
LADYS-MANOR MADAM BORGIA	840003126637159	C		C			
LADYS-MANOR MARCI JELLO-ET	USA 68803341						
LADYS-MANOR MARCIE JAVA-ET	USA 68803338						
LADYS-MANOR MARM ADDI	USA 62360681						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR MAYF ASHAI-ET	USA 71593057			C			
LADYS-MANOR MAYF ASHIRA-ET	USA 71593055			C			
LADYS-MANOR MAYF DODA-ET	USA 71593038			C			
LADYS-MANOR MAYF DODI-ET	USA 71593034			C			
LADYS-MANOR MAYFIELD SELMA	USA 72233180			C			
LADYS-MANOR MC CORD LYNX-ET	840003013129356						
LADYS-MANOR MC DABRIA-ET	USA 71593050						
LADYS-MANOR MC GIZZELE	USA 71593049						
LADYS-MANOR MC GRT SHARMA	840003123775004						
LADYS-MANOR MCCORD OCEAN-ET	USA 72233261	C					
LADYS-MANOR MCG OPTOMIST-ET	840003126637216						1
LADYS-MANOR MCG OVATION-ET	840003126637151	C					
LADYS-MANOR MCGYVER SH GERI	840003013129376					C	
LADYS-MANOR MDN LILAC-ET	USA 72233207						
LADYS-MANOR MDN LILLY-ET	USA 72233210						
LADYS-MANOR MG SUZANNE-ET	USA 71593022						
LADYS-MANOR MIC GERMAIN-ET	USA 68803317						
LADYS-MANOR MICH GRAYCIE-ET	USA 68803310						1
LADYS-MANOR MICHAEL GRAY-ET	USA 68803332						1
LADYS-MANOR MICHAEL GREY-ET	USA 68803334						1
LADYS-MANOR MID TWILIGHT-ET	840003123774953						
LADYS-MANOR MILL OOMAH-ET	840003133394929						
LADYS-MANOR MILTN OOMPA-ET	840003133394970						
LADYS-MANOR MISSOURI TEE-ET	840003129373552						
LADYS-MANOR MIX RD SHEER-ET	USA 72233201						
LADYS-MANOR MIX RD SHIRA-ET	USA 71593068						
LADYS-MANOR MIX TOPAZ	USA 71593028		C				
LADYS-MANOR MLNGTN UDA	840003133394971						
LADYS-MANOR MNGHT TEMPLE-ET	840003123774949						
LADYS-MANOR MNTROSS SANGRIA	USA 74821782						1
LADYS-MANOR MNTRY AMYRA	840003126637185						
LADYS-MANOR MNTRY LADY-ET	840003126637169						
LADYS-MANOR MNTRY LATTE-ET	840003126637183						
LADYS-MANOR MOG AMOIRA-ET	USA 71592997						
LADYS-MANOR MOG LAVERNE	USA 71593030						
LADYS-MANOR MOG SUSANNA-ET	USA 71593023						
LADYS-MANOR MOG SUZIE-ET	USA 71593025						
LADYS-MANOR MOGUL SUSAN-ET	USA 71593021						
LADYS-MANOR MONTEREY SONG	840003126637176						
LADYS-MANOR MORGAN SADA-ET	USA 72233267			C			
LADYS-MANOR MORGAN SADAY-ET	USA 72233265			C		C	
LADYS-MANOR MORGAN SADE-ET	USA 72233264			C		C	
LADYS-MANOR MORGAN SADIE-ET	USA 72233263			C		C	
LADYS-MANOR MOS DARCY-ET	USA 72233177						
LADYS-MANOR MOS SUMMER-ET	USA 72233174						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR MOS SUNNY-ET	USA 72233175						
LADYS-MANOR MS LAVENDER-ET	USA 72233205						
LADYS-MANOR MSRRI SHAUNE	840003133394964						
LADYS-MANOR MTR OBSESSED-ET	840003133394965						
LADYS-MANOR MTRS LOVEY-ET	840003123774976						
LADYS-MANOR MTRS SHAYLA-ET	840003126637143						
LADYS-MANOR MTRY AMELIA-ET	840003126637204						1
LADYS-MANOR MTRY LAYNA-ET	840003126637197						
LADYS-MANOR NOMNE AMESTI-ET	840003013129433						1
LADYS-MANOR NOMNE DAPHNE-ET	840003013129437						
LADYS-MANOR NOMNE DARCY-ET	840003123774937						
LADYS-MANOR NOMNE DARLA-ET	840003123774927						
LADYS-MANOR NOMNEE SHUSH-ET	840003013129435						
LADYS-MANOR O AUDREY-ET	USA 61522011						
LADYS-MANOR O LARAYDO-ET	840003129373536						
LADYS-MANOR O LATER-ET	840003129373538						
LADYS-MANOR O LATOYA-ET	840003129373537						
LADYS-MANOR O LIPSTICK-ET	840003126637146						
LADYS-MANOR O SHANIA-ET	USA 66676295						
LADYS-MANOR O SHAWNTAY	USA 70875762						
LADYS-MANOR O SHINDIG-ET	840003123774998						
LADYS-MANOR O SHRIMP-ET	840003126637148						
LADYS-MANOR OAK GAB-ET	840003013129384						
LADYS-MANOR OAK GABBY-ET	840003013129383						
LADYS-MANOR OAK GABRIELE-ET	840003013129382						
LADYS-MANOR OAK GRETTA	USA 72233258						
LADYS-MANOR OAK LORALIE-ET	840003013129367						
LADYS-MANOR OAK LORETTA-ET	840003013129369						
LADYS-MANOR OAK LORI-ET	840003013129370						
LADYS-MANOR OAK SANDY-ET	USA 72233257						
LADYS-MANOR OAK SHY-ET	USA 72233260						
LADYS-MANOR OB GERI GIRL-ET	USA 70189403						1
LADYS-MANOR OBS GEORGIE-ET	USA 69547726						1
LADYS-MANOR OCT AVA	840003129373539						
LADYS-MANOR OCT OXSANNA-ET	840003129373533	C					
LADYS-MANOR OCT SHANDRILL	840003133394944						
LADYS-MANOR OCT TEMPLET-ET	840003129373587						
LADYS-MANOR OCTAV GET	840003129373557						1
LADYS-MANOR OCTBFS GREET-ET	840003129373560						
LADYS-MANOR OCTBR GREAL-ET	840003129373562						
LADYS-MANOR OCTBR GREER-ET	840003129373565						
LADYS-MANOR OCTBR LORAH-ET	840003129373563						
LADYS-MANOR OCTBR LORAL-ET	840003129373566						
LADYS-MANOR OCTFS GREELY-ET	840003129373561						
LADYS-MANOR OCTFST GENNA-ET	840003129373549					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR OCTFST GERA-ET	840003129373548						
LADYS-MANOR OCTFST GERI-ET	840003129373547						
LADYS-MANOR OCTFST GWYN	840003129373596						
LADYS-MANOR OCTFST LAIMA-ET	840003133394951						
LADYS-MANOR OCTFST LAYNA-ET	840003133394954						
LADYS-MANOR OCTFST LU-LU-ET	840003129373612						
LADYS-MANOR OCTFST SASHA	840003129373576			C			
LADYS-MANOR OCTFST SOCHI-ET	840003129373555						
LADYS-MANOR OCTFST SPAIN-ET	840003129373582						
LADYS-MANOR OCTFST SUNNY-ET	840003129373573						
LADYS-MANOR OCTFT LUELLA-ET	840003133394928						
LADYS-MANOR OCTOBER SNOW-ET	840003129373550						
LADYS-MANOR OCTOGLENNA	840003133395006						
LADYS-MANOR OCTST AMPLE-ET	840003133394966						
LADYS-MANOR OCTST LAVERN-ET	840003129373602						
LADYS-MANOR OLMP LAVISH-ET	840003126637121						
LADYS-MANOR OLY LUSTFUL-ET	840003129373541						
LADYS-MANOR OLY SHARE-ET	840003126637144						
LADYS-MANOR OLYM DIMPLES	840003129373583						1
LADYS-MANOR OLYMP AMARIS-ET	840003123774951						
LADYS-MANOR OLYMP AMASA-ET	840003123774950						
LADYS-MANOR OLYMP AMOIRA-ET	840003123774948						
LADYS-MANOR OLYMP AMUSE-ET	840003123774960						
LADYS-MANOR OLYMP DABRIA	840003126637175						
LADYS-MANOR OLYMP DECAF-ET	840003123774954						
LADYS-MANOR OLYMP DECAL-ET	840003123774956						
LADYS-MANOR OLYMP DIOR-ET	840003123774966						
LADYS-MANOR OLYMP LOLA-ET	840003123774952						
LADYS-MANOR OLYMP LOLI-ET	840003123774968						
LADYS-MANOR OLYMP LYLA-ET	840003123774965						
LADYS-MANOR OLYMP SHANIA	840003123774972						
LADYS-MANOR OLYMP SHIRL-ET	840003123774996						
LADYS-MANOR OLYMP SWAN-ET	840003123774957						
LADYS-MANOR ON SHANIA-ET	USA 66676283						
LADYS-MANOR OOH LALAH P-ET	840003126637161						
LADYS-MANOR OOH ODA-ET	840003126637164	C					
LADYS-MANOR OPEN AMNESTY-ET	840003133394943	C				C	
LADYS-MANOR OPEN AMOIRA-ET	840003129373592						
LADYS-MANOR OPEN ARENA-ET	840003129373601					C	
LADYS-MANOR OPEN ARIEL-ET	840003129373599						
LADYS-MANOR OPEN ARRIANA-ET	840003129373606	C				C	
LADYS-MANOR OPEN ARTIST-ET	840003133394930					C	
LADYS-MANOR OPEN D AMIRA-ET	840003129373604	C				C	
LADYS-MANOR OPEN D AMORE-ET	840003133394942	C				C	
LADYS-MANOR OPEN DAFFERS-ET	840003129373603						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR OPEN DAPHNE-ET	840003129373595					C	
LADYS-MANOR OPEN JAMAICA-ET	840003133394978	C				C	
LADYS-MANOR OPEN JAPAN-ET	840003133394980	C					
LADYS-MANOR OPEN JORDAN-ET	840003133394985					C	
LADYS-MANOR OPEN LENORA-ET	840003133394936	C				C	
LADYS-MANOR OPEN LENORE-ET	840003133394932	C					
LADYS-MANOR OPEN SASH-ET	840003129373590					C	
LADYS-MANOR OPEN UNO GRACE	840003133394982					C	
LADYS-MANOR OPN AMHURST-ET	840003133394949	C					
LADYS-MANOR OPN DOUGHNUT-ET	840003133394976	C				C	
LADYS-MANOR OPPULANCE-ET	840003126637200	C					
LADYS-MANOR P DELICASY-ET	USA 72233211						
LADYS-MANOR P OPORTEEN-ET	840003126637202						
LADYS-MANOR P OPPULENT-ET	840003126637199						
LADYS-MANOR PARADISE SUGAR	USA 71593026						
LADYS-MANOR PAT LUNA-RED-ET	840003133394973						
LADYS-MANOR PL AM ESCAPE-ET	USA 70875720						
LADYS-MANOR PL SHAKIRA-ET	USA 66676319						
LADYS-MANOR PL SHANDRA-ET	USA 66676321						
LADYS-MANOR PL SHANIA-ET	USA 66676318						
LADYS-MANOR PL SHERIDEN-ET	USA 66676320						
LADYS-MANOR PLN AMEEVA-ET	USA 66676317						
LADYS-MANOR PLNT AMELIA-ET	USA 65756781						
LADYS-MANOR PLNT AMINA-ET	USA 65756794						
LADYS-MANOR PLNT AMIRA-ET	USA 65756791						1
LADYS-MANOR PNCH D AMEER-ET	USA 71593033						
LADYS-MANOR PNCH D AMYRA-ET	USA 71593031						
LADYS-MANOR PRD GRACELYN-ET	840003013129360						3
LADYS-MANOR PRD LAUGHTER-ET	840003013129404						3
LADYS-MANOR PRED LAZULI-ET	840003013129409						
LADYS-MANOR PRED ORCHID-ET	840003013129363						
LADYS-MANOR PREDES AMELIA	840003013129366						
LADYS-MANOR PREDES LA-LA-ET	840003013129374						3
LADYS-MANOR PREDES LE-LE-ET	840003013129377						3
LADYS-MANOR PREDES LO-LO-ET	840003013129379						
LADYS-MANOR PREDES LU-LU-ET	840003013129380						
LADYS-MANOR PREDES LY-LY-ET	840003013129381						3
LADYS-MANOR PRFIT DELICASY	840003133394999						
LADYS-MANOR PRFT LANDON-ET	840003133394962						
LADYS-MANOR PRFT LANGDON-ET	840003133394963						
LADYS-MANOR PROFIT LACI-ET	840003133394956						
LADYS-MANOR PROFIT LAIRA-ET	840003133394959						
LADYS-MANOR PROFIT LAYLA-ET	840003133394955						
LADYS-MANOR PROFIT LEENA-ET	840003133394960						
LADYS-MANOR PUR SAMARA-ET	840003123775013						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR PUR SAMEHA-ET	840003123775023						
LADYS-MANOR PUR SAMENA-ET	840003123775017						
LADYS-MANOR PUR SAMIRA-ET	840003123775016						
LADYS-MANOR PURE OAK G-ET	840003129373530						
LADYS-MANOR PURE SAM-ET	840003123775010						
LADYS-MANOR PWRB PAY-OUT-ET	840003129373527						
LADYS-MANOR PWRBALL ODDS-ET	840003129373526	C					
LADYS-MANOR R SHELLY-ET	USA 70875738						
LADYS-MANOR R SHEYENNE-ET	USA 70875737						
LADYS-MANOR RD GENAVIVE-ET	USA 70875683						1
LADYS-MANOR RD GRACIOUS-ET	USA 68803304						1
LADYS-MANOR RD SABELLE-ET	USA 71592975						
LADYS-MANOR RD SABINA-ET	USA 71592977						
LADYS-MANOR RD SABRA-ET	USA 71592979						
LADYS-MANOR RD SASHAY-ET	USA 72233197						
LADYS-MANOR RD SHANNEL-ET	USA 70875724						1
LADYS-MANOR RD SHANTEL-ET	USA 70875725						1
LADYS-MANOR RD SHAR-ET	USA 70875744						
LADYS-MANOR RD SHARLEEN-ET	USA 70875729			C			1
LADYS-MANOR RD SHARMAIN-ET	USA 70875745						
LADYS-MANOR RD SHELL-ET	USA 72233236						
LADYS-MANOR RD SHERRI-ET	USA 72233234						
LADYS-MANOR RD SNOWSHAWN-ET	USA 70189472						
LADYS-MANOR RD SNOWSHEEN-ET	USA 70189473						
LADYS-MANOR RD SNOWSONG-ET	USA 70189474			C			
LADYS-MANOR REF SHA-BLANCHE	840003123774985						
LADYS-MANOR REFLECT DESI-ET	840003123775003						
LADYS-MANOR REFLECT GIGI-ET	840003123775001						
LADYS-MANOR REFLECT GILI-ET	840003123775002						
LADYS-MANOR REFLECTOR SAKI	USA 74821783						1
LADYS-MANOR RF GEM D-ET	USA 69547655						
LADYS-MANOR RF GEMMA D-ET	USA 69547654						
LADYS-MANOR RF GEMMY D-ET	USA 69547661						
LADYS-MANOR RF GENNA D-ET	USA 69547656						
LADYS-MANOR ROB SHARELLE-ET	USA 70875735	C					
LADYS-MANOR ROB SHARON	USA 70875700						
LADYS-MANOR ROGR LULLABY-ET	840003123774941						
LADYS-MANOR RUBY D SHANA-ET	USA 62360742						
LADYS-MANOR RUBY D SHARM-ET	USA 70875740						
LADYS-MANOR RUBY D SHAWN-ET	USA 62360741						
LADYS-MANOR RUBY DULCEE-ET	USA 62360684						
LADYS-MANOR RUBY FALLON-ET	USA 61801753						
LADYS-MANOR RUBY SCARLET-ET	USA 71592971						
LADYS-MANOR RUBYD SATIN-ET	USA 71592970						
LADYS-MANOR RUBYD SHARMA-ET	USA 70875741						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR RUBYD SILK-ET	USA 70875778						
LADYS-MANOR RUBYD SUEDE-ET	USA 70875775						
LADYS-MANOR RUBYF GEMMA-ET	USA 62812310						1
LADYS-MANOR RUBYF GERI-ET	USA 63601703						1
LADYS-MANOR RUBYF GINNI-ET	USA 62812318						
LADYS-MANOR S DAHLIA-ET	USA 70189447						
LADYS-MANOR S DONATELLA-ET	USA 70189448						
LADYS-MANOR SAJAC SANDRA-ET	USA 72233250						
LADYS-MANOR SAJAC SANDY-ET	USA 72233254						
LADYS-MANOR SEAGL TATUM-ET	840003126637152						
LADYS-MANOR SEGL TANGENT-ET	840003126637154		C				
LADYS-MANOR SEGUL TALIA-ET	840003126637153						
LADYS-MANOR SH D CLAIRA-ET	USA 72233196						
LADYS-MANOR SH DELICATE-ET	USA 70189443						
LADYS-MANOR SHA-DAISY-ET	USA 70189416						
LADYS-MANOR SHAKE ASHBY	840003126637165						
LADYS-MANOR SHALIMERE	USA 71592996						
LADYS-MANOR SHAM GARBO-ET	USA 70189481						1
LADYS-MANOR SHAM GEDGET-ET	USA 70875709						1
LADYS-MANOR SHAM GRACE-ET	USA 70189477						1
LADYS-MANOR SHAMRCK GERI-ET	USA 70875707						
LADYS-MANOR SHAMRCK GWYN-ET	USA 70875686						
LADYS-MANOR SHAMRK GEGE-ET	USA 70875708						
LADYS-MANOR SHAMRK GELDA-ET	USA 70875710						
LADYS-MANOR SHAMRK GERTA-ET	USA 70875711						
LADYS-MANOR SHAMROCK GIN-ET	USA 70875682						
LADYS-MANOR SHAMROCK MIA	USA 70189455						
LADYS-MANOR SHANDRO KAYLEE	USA 72233259						
LADYS-MANOR SHANDRO LANEY	USA 72233256						
LADYS-MANOR SHANIA LIZA-ET	USA 70189407						
LADYS-MANOR SHARMADGE-ET	USA 70875749						
LADYS-MANOR SHARMIDGE-ET	USA 70875747						
LADYS-MANOR SHAWN ZEBA-ET	USA 64673784						
LADYS-MANOR SHDRELL POSH-ET	USA 72233182						
LADYS-MANOR SHERRI O-RED-ET	840003126637208						
LADYS-MANOR SHIRLEY O-ET	840003126637211						
LADYS-MANOR SHKPR GRAND-ET	840003013129426						1
LADYS-MANOR SHKPR GREAT-ET	840003013129425						
LADYS-MANOR SHKPR GRINGA-ET	840003013129428						1
LADYS-MANOR SHKPR ONYX-ET	840003013129420						
LADYS-MANOR SHKSPEARE AMIRA	840003013129417						
LADYS-MANOR SHKSPR DANCE-TW	840003123774984						
LADYS-MANOR SHM GEANNA-ET	USA 70875715						
LADYS-MANOR SHM GELLIAN-ET	USA 70875712						
LADYS-MANOR SHMRK DESIGN-ET	USA 70189444						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR SHOT GRAYLEE-ET	USA 72233249						
LADYS-MANOR SHOT GRETТА-ET	USA 72233247						
LADYS-MANOR SHPRE OPAL-ET	840003013129418						
LADYS-MANOR SHRIF ONORAH-ET	840003129373518	C					
LADYS-MANOR SILVER GREY-ET	840003129373535						1
LADYS-MANOR SILVER LY-LY	840003133394933						
LADYS-MANOR SILVER OIL-ET	840003129373593	C					
LADYS-MANOR SILVER SHALYNN	USA 143362252						
LADYS-MANOR SILVR LE-LE-ET	840003129373568						
LADYS-MANOR SKYMONT DAPHNE	840003123774932						
LADYS-MANOR SLVR GRACE-ET	840003129373540						
LADYS-MANOR SNDY EARLY-ET	840003129373553						
LADYS-MANOR SNOW GLARE-ET	USA 72233231						
LADYS-MANOR SNOW GLISTEN-ET	USA 72233225						
LADYS-MANOR SNOW S GLASS-ET	USA 72233221						
LADYS-MANOR SNOW-GLOBE-ET	USA 72233220						
LADYS-MANOR SNOWDAY-ET	USA 72233208						
LADYS-MANOR SPARK OBJECT-ET	840003129373584						
LADYS-MANOR SPARK ODESSA-ET	840003129373586	C					
LADYS-MANOR SPARK ODETTE-ET	840003133394946						
LADYS-MANOR SPARK OFF-ET	840003129373579						
LADYS-MANOR SPARK OMG-ET	840003129373580						
LADYS-MANOR SPARK ON-ET	840003129373578						
LADYS-MANOR SPARK OPERA-ET	840003129373585						
LADYS-MANOR SPARK OPTED-ET	840003129373589						
LADYS-MANOR SPART SEAN-ET	USA 66676275						
LADYS-MANOR SPMT MARSHA-ET	USA 66676329						
LADYS-MANOR SPRING DAISY	840003129373613						
LADYS-MANOR SPRING TIME-ET	840003129373559						
LADYS-MANOR SPRINGSNOW-ET	840003126637218						
LADYS-MANOR SPRMAN LANEY	840003129373574						
LADYS-MANOR SPRSIRE SHAWNEE	USA 71593063						
LADYS-MANOR SPSNC ANGORA-ET	USA 70875779						1
LADYS-MANOR SS SNOWSTORM	USA 72233228						
LADYS-MANOR SSH DETAIL-ET	840003129373534						
LADYS-MANOR SSH SEASHELL-ET	840003126637206						
LADYS-MANOR SSH SEASHORE-ET	840003126637207						
LADYS-MANOR SSHOT OWOW-ET	840003126637215	C					
LADYS-MANOR SSHOT SADDEE-ET	840003126637220						
LADYS-MANOR SSHOT SADER-ET	840003129373517						
LADYS-MANOR SSHOT SADIE-ET	840003126637219						
LADYS-MANOR SSHOT SALLY-ET	840003126637209						
LADYS-MANOR SST SEASIDE-ET	840003129373532						
LADYS-MANOR STAR OPAL	USA 15932569						
LADYS-MANOR SUMMER PRADA	USA 71593035						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LADYS-MANOR SUNDAY EVE-ET	840003129373551						
LADYS-MANOR SUPERMAN GRETТА	840003129373570						
LADYS-MANOR SUPRMAN ONYX-ET	840003129373588						
LADYS-MANOR T SEASWALLOW-ET	840003133394940						
LADYS-MANOR TAI TEMPLE-TW	840003133394986						
LADYS-MANOR TAI TEMPLET-TW	840003133394987						
LADYS-MANOR TALR OMA-ET	840003133394948						
LADYS-MANOR TALR OMBRE-ET	840003133394947	C					
LADYS-MANOR TANG SNOSHAW-ET	840003123774942						
LADYS-MANOR TAT ROB SHARON	840003126637149		C				
LADYS-MANOR TATUM SHAWL	840003126637145		C				
LADYS-MANOR TAWNY-ET	USA 18030384						
LADYS-MANOR TAY SEAHORSE-ET	840003133394941						
LADYS-MANOR TAY SEATTLE-ET	840003133394938						
LADYS-MANOR TAY SEAVIEW-ET	840003133394939						
LADYS-MANOR TGUN TERRA-ET	840003133394993						
LADYS-MANOR TNG SNOSQUAL-ET	840003123774946		C				
LADYS-MANOR TOPAL	USA 123369033						
LADYS-MANOR TOPAZ D	USA 60778548						
LADYS-MANOR TRANQUILITY-ET	840003133394991						
LADYS-MANOR TROY DECADENT	840003133394935						
LADYS-MANOR TROY SHANIA	840003133394934						
LADYS-MANOR TRUDIE CRI-ET	USA 66321067		C				
LADYS-MANOR U RD GRAZIA-ET	USA 71593051						
LADYS-MANOR UNO AMIRA-ET	USA 71592974						
LADYS-MANOR UNO D-AMIRA	USA 71593056						1
LADYS-MANOR UNO DESIGNER-ET	USA 72233188						
LADYS-MANOR UNO DESIREE-ET	USA 72233185						
LADYS-MANOR UNO DESTIN-ET	USA 72233187						
LADYS-MANOR UNO GERALYN-ET	USA 71593053						1
LADYS-MANOR UNO GRAYCEE-ET	USA 71593009						
LADYS-MANOR UNO RD GRACE	USA 71593052						1
LADYS-MANOR VOTTO BAY	840003126637162						
LADYS-MANOR WILL POWER SILK	840003013129430						
LADYS-MANOR WIND DIVINE-ET	USA 70875768						1
LADYS-MANOR WIZ MARCIE-ET	USA 62360673						
LADYS-MANOR WIZ MARSHA-ET	USA 62360702						
LADYS-MANOR WND DIVINITY-ET	USA 70875767						
LADYS-MANOR WYE-ET	USA 61095818						
LADYS-MANOR WYNONA-ET	USA 123508757						
LADYS-MANOR Y SHAY-ET	840003126637174						
LADYS-MANOR YODER SHEBA-ET	840003126637177						
LADYS-MANOR YODER SHEVA-ET	840003126637180						
LADYS-MANOR YODR SASHET-ET	840003126637210						
LAESCHWAY BOOKEM BELLA	840003008391032						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAESCHWAY BRAXTON 757	840003009969705						
LAESCHWAY DAMARIS FAITH-ET	840003131050899						
LAESCHWAY DMRIS FAVORITE-ET	840003131050901						
LAESCHWAY LEXOR FUCHSIA	840003011584436						
LAESCHWAY LITHIUM BATTERY	840003011584420						
LAESCHWAY LITHIUM NEON-ET	840003011584424						
LAESCHWAY LITHIUM XENON-ET	840003011584426						
LAESCHWAY MAGNUS BOA	840003009969732						
LAESCHWAY SHAMROCK BLAZE	840003009969747						
LAESCHWAY SHARKY BAMBI-ET	USA 63787159						
LAESCHWAY SUPERSIRE STAR-ET	840003011584416						
LAESCHWAY YODER FABULOUS-ET	840003131050892						
LAESCHWAY YODER SYDNEY	840003131050894						
LAFOUGERE BOLTON SANDRINE-ET	CAN 104984946	C					
LAFOUGERE FBI SPECTRA-ETS	CAN 104190524						
LAGE-BIJSSEL ALICE BIFFY 1	NLD 523115067						
LAGE-BIJSSEL JENIFER BIFFY2	NLD 523015224						
LAGLERS RAMOS 9723	USA 62705066						
LAGRIMAS STORM VAIL	USA 128351734						1
LAH-DALE PRO RIONA	USA 62251326						
LAIDLAWN SANCHEZ GEMINI	CAN 9940333						
LAKE-BREEZE DUCATI LYZA-RED	840003012456974						
LAKE-EFFECT AL WINDSWEPT-ET	USA 136661144						
LAKE-EFFECT BAXTER WENDY-ET	USA 66893871						
LAKE-EFFECT BOL CONNIE-ET	USA 139582363						
LAKE-EFFECT CAL LATASHA-TW	USA 141356806						
LAKE-EFFECT CAL LATOYA-TW	USA 141356815						
LAKE-EFFECT CANYON BLISS	USA 136976509						
LAKE-EFFECT CHIP CHRISTA	USA 141858700						
LAKE-EFFECT DORCY CHARLOTTE	USA 142746509						
LAKE-EFFECT GABOR GREATNESS	USA 143080060						
LAKE-EFFECT IOTA WYSTAR	USA 141356833						
LAKE-EFFECT OSCAR BABE	USA 15276406						
LAKE-EFFECT PHX WOVABLE	USA 140833575						
LAKE-EFFECT PK JEEV 5057-ET	USA 68997314						
LAKE-EFFECT PRON LEAMER-ET	USA 139901344						
LAKE-EFFECT SAN DISTRACTION	USA 141429302						
LAKE-HOME A STAR PRINCESS	USA 14377164						
LAKE-HOME ASTRONOM ALEXIA	USA 62084472						
LAKE-HOME DEMAND CAROLINE	USA 60037877						
LAKE-HOME JEEVES CATHY	USA 70282840						
LAKE-POINT LP JEEVES JUNO	USA 141556493						
LAKE-PRAIRIE ALISON-RED-ET	USA 141684044						
LAKECREST AIRRAID NILA-ET	USA 139195497						
LAKECREST DUPLEX MOLLY	USA 138457011						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAKECREST SHOTTLE NIFTY	USA 140720754						
LAKEFIELD JASPER SERINA-ET	CAN 9835719						
LAKESHORE ATWOOD ELSA	840003125564025						
LAKESIDE SNOWMAN PAYA	NLD 899880051						
LAKEVIEW-MACK BESS-ET	840003132565755						
LAKEVIEW-MACK BLGA WINDA-ET	USA 74241039			C			3
LAKEVIEW-MACK BOBBI-ET	840003132565757						
LAKEVIEW-MACK BRANDIEN-ET	840003132565727						
LAKEVIEW-MACK BRIANA-ET	840003132565759						
LAKEVIEW-MACK DELTA CELINE	840003134516799						
LAKEVIEW-MACK DELTA LESLIE	840003134516802						
LAKEVIEW-MACK DINA-ET	840003133423137						
LAKEVIEW-MACK DOZER 6992-ET	840003126680960						
LAKEVIEW-MACK DOZER 7116-ET	USA 74541335		C				
LAKEVIEW-MACK EMIL WENDE-ET	USA 74241036					C	
LAKEVIEW-MACK JONNY JANNY	USA 142758946						
LAKEVIEW-MACK JS CYNTHIA-ET	840003133423140						
LAKEVIEW-MACK JS WISTERIA	840003132565739						
LAKEVIEW-MACK LAYNE RUBBLE	USA 142566167						
LAKEVIEW-MACK MELMN GIGGITY	USA 142758937		C				
LAKEVIEW-MACK MISS CANDY-ET	840003133423138						
LAKEVIEW-MACK MNTRS ARIANA	840003134516801						
LAKEVIEW-MACK MONT 3182-ETS	840003128749618						
LAKEVIEW-MACK MONT 3183-ETS	840003128749617						
LAKEVIEW-MACK MONT 7090-ET	840003134376882						
LAKEVIEW-MACK MONTE 3184-ET	840003128749616						
LAKEVIEW-MACK MS DANICA-ET	840003132565736						
LAKEVIEW-MACK PANAMA-ET	840003132565738						
LAKEVIEW-MACK PANDORA-ET	840003132565725						
LAKEVIEW-MACK PEGGY-ET	840003132565752						
LAKEVIEW-MACK PENELOPE-ET	840003133423132						
LAKEVIEW-MACK PERSNICKTY-ET	840003132565731		C				
LAKEVIEW-MACK PETUNIA-ET	USA 74241072						
LAKEVIEW-MACK POSIE-ET	USA 74241069						
LAKEVIEW-MACK PR KB 1257-ET	840003129128802						
LAKEVIEW-MACK PR KB 1262-ET	840003129128807						
LAKEVIEW-MACK PR KB 1271-ET	840003129128816						
LAKEVIEW-MACK PRECIOUS-ET	USA 74241066						
LAKEVIEW-MACK PRINCESS-ET	USA 74241067						
LAKEVIEW-MACK PRISSY-ET	USA 74241070						
LAKEVIEW-MACK PUMPERNICKEL	USA 142510335						
LAKEVIEW-MACK RICA-ET	840003132565732						
LAKEVIEW-MACK SHMRCK PEEWEE	USA 142503797						
LAKEVIEW-MACK STRLNG DAINTY	USA 142557394						
LAKEVIEW-MACK TA-DAA-ET	840003133423133		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAKEVIEW-MACK TRISH-ET	840003133423134						
LAKEVIEW-MACK WENDELIN-ET	840003132565735						
LAKEVUE ABSOLUTE TROUBLE-ET	USA 73308705						1
LAKEVUE ABSOLUTE TULIP-ET	USA 72494766						1
LAKEVUE ADVENT JADA-RED	USA 136051488						
LAKEVUE ALTD JOLEEN-RED-ET	USA 72669017						1
LAKEVUE ART MONTREAL	USA 72494710						
LAKEVUE ARTIE JIGGLES-RED	USA 69106434		C				
LAKEVUE ATWOOD BURBON-ET	USA 70887489						
LAKEVUE ATWOOD SKYLER	USA 70887495						1
LAKEVUE BRADNICK SACOYA-ET	USA 70887522						
LAKEVUE BRADNICK SHAZZAM	USA 70887541						
LAKEVUE BRADNICK SHERRY-ET	USA 70887521						
LAKEVUE BRAXTON SANDY-ET	USA 70887566						
LAKEVUE BRDNCK SENIORITA-ET	USA 70887512						
LAKEVUE CAMERON SCOTIA-ET	USA 70887558						
LAKEVUE CAMERON SYDNEY-ET	USA 70887559						
LAKEVUE CHRIS SAVANNAH-ET	USA 70887490						
LAKEVUE CHRIS WHITNEY-ET	USA 70887487						
LAKEVUE CHRIS WINNY-ET	USA 70887488						
LAKEVUE CROWN SPICE	USA 72494778						
LAKEVUE DADDY HOPEFUL	USA 72494756		C				
LAKEVUE DAMASCUS BABE	USA 70887518						3
LAKEVUE DASHAWN HYBISCUS	USA 73308688						
LAKEVUE DEBONAIR JADE-RED	USA 65361961						
LAKEVUE DRACO MAKIN HISTORY	USA 73308724						1
LAKEVUE DREAMS HARLEY	USA 73308719						
LAKEVUE DUFNER HARVEST	USA 73308715					C	
LAKEVUE DURHAM SADEE-ET	USA 65361896						
LAKEVUE EPIC HYACINTH-ET	USA 70887539						
LAKEVUE EPIC HYBISCUS-ET	USA 70887555						
LAKEVUE EPIC HYDRAGNEA-ET	USA 70887538						
LAKEVUE EXPLODE MARA-ET	USA 70887507						
LAKEVUE EXPLODE MARANDA-ET	USA 70887506						
LAKEVUE GOLD CHIP LAUREL	USA 70887531						
LAKEVUE GOLD CHRIS LINETTE	USA 70887481						
LAKEVUE GOLDWYN SYDNEY-ET	USA 65361929						1
LAKEVUE HERO BONNIE-ET	USA 70887570						
LAKEVUE HERO BUNNY-ET	USA 70887535						
LAKEVUE HERO LYDIA-ET	USA 73308685						
LAKEVUE HERO MARNEE-ET	USA 72494768						
LAKEVUE HERO MIRACLE-ET	USA 72494763						
LAKEVUE HERO SHANDA-ET	USA 70887573	C					
LAKEVUE HERO SHAUNA-ET	USA 70887571	C					1
LAKEVUE LARSN CHERRY-RED-TW	USA 70887525						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAKEVUE LARSON COCOA-TW	USA 70887524						3
LAKEVUE LATHORTY HALLIE-ET	USA 70887500		C				
LAKEVUE LIQUID GOLD TACO	USA 72494765						
LAKEVUE MOGUL HOPE-ET	USA 72494688						
LAKEVUE MOGUL HUMBLE-ET	USA 72494699					C	
LAKEVUE MORTY SELENA-ET	USA 136295741						
LAKEVUE MORTY TAMARA-ET	USA 135659991						
LAKEVUE PRONTO BONITA	USA 65361906						
LAKEVUE R DEVIL JUNIPER-RED	USA 62550165						
LAKEVUE ROCKSTAR WINNER-RED	USA 70887501					C	1
LAKEVUE SANCHEZ MADISON-ET	USA 65361981						
LAKEVUE SANCHEZ SHANGO	USA 69106430						
LAKEVUE SCOOPY-DOO BIMBO	USA 135301816						
LAKEVUE SHAMROCK TRACEY	USA 70887523						
LAKEVUE SHOTTLE LARISSA-ET	USA 65361979						
LAKEVUE SPEARMINT HADLEY-ET	USA 65361991		C			C	
LAKEVUE SPEARMINT HARLEY-ET	USA 65361987		C				
LAKEVUE WILLPOWER HASHTAG	USA 72494775						1
LAMBRECHT AEMERALD-ET	840003128668728						
LAMBRECHT AEMERALDANN	USA 73809033						
LAMBRECHT AICON 1440	840003134297441						
LAMBRECHT AICON EBASSEE-ET	840003130067928						
LAMBRECHT AICON EMBASI-ET	840003130067927						
LAMBRECHT AICON EMBASIE-ET	840003130067930					C	
LAMBRECHT AICON LILRON	840003134297444						
LAMBRECHT AICON LUEXIS	840003134297440						
LAMBRECHT ALCHEMY LEXOR	USA 71776678						1
LAMBRECHT ALCHEMY UNO	USA 71776679						
LAMBRECHT ANNABELLE 20-ET	USA 63373773						
LAMBRECHT ANNASTASIA 22	USA 63373775					C	
LAMBRECHT ARCRV CASSIDEE-ET	840003134297456						
LAMBRECHT ARCRVL CASSIDY-ET	840003134297453						
LAMBRECHT ATWOOD LEXICON	USA 72678219						3
LAMBRECHT ATWOOD VELVET2	USA 70033778						
LAMBRECHT BALISTO 1446	840003134297447						
LAMBRECHT BALISTO 1453	840003134297454						
LAMBRECHT BAXTER LEXIS 730	USA 66549991						
LAMBRECHT BAXTR LORAY 28-ET	USA 63373781						
LAMBRECHT BAXTR LORIE 29-ET	USA 63373782						
LAMBRECHT BELAIR SUPERAN	840003130067900						
LAMBRECHT BETTMAN 1323	840003128668720						
LAMBRECHT BOOKEM AMELIA-ET	USA 70692636						
LAMBRECHT BOOKEM ANNISA-ET	USA 70692638						
LAMBRECHT BOOKEM AUBREY-ET	USA 70692635						
LAMBRECHT CHRISTMAS EVE-RED	840003134297446		C				1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAMBRECHT CONAN LUCINDA	USA 70033790						3
LAMBRECHT CONNIE-ET	USA 72678243						
LAMBRECHT DANCER REDPULL	USA 71776698						
LAMBRECHT DELTA PEYE-ET	840003134297448						
LAMBRECHT DELTA PIE-ET	840003134297443						
LAMBRECHT DOORMAN ANOCOND	840003130067935						
LAMBRECHT DOORMAN FINNESE	USA 72678224					C	
LAMBRECHT DORCY 1240	USA 73808968						
LAMBRECHT DORCY 1241	USA 73808969						
LAMBRECHT DORCY 1242	USA 73808970						
LAMBRECHT EMERALD ANN-ET	USA 71123642						
LAMBRECHT EMERALD ANNE-ET	USA 71123643	C					
LAMBRECHT EMERALD ANNIE-ET	USA 71123644	C				C	
LAMBRECHT EXTREME 1448	840003134297449						
LAMBRECHT FACEBOOK LUCINDA	USA 71123637						
LAMBRECHT FEVER 954	USA 70692644						
LAMBRECHT G W ATWOOD LUXURY	USA 72678221						
LAMBRECHT GABLE 1409	840003130067954						
LAMBRECHT GARRETT 839	USA 68957285						
LAMBRECHT GOLDEN ANNA-ET	USA 71123630						
LAMBRECHT HANDMADE 1098	USA 71776743						
LAMBRECHT HEFTY KIM	USA 71776738						
LAMBRECHT IOTA ANNESE-ET	840003130067892						
LAMBRECHT IOTA ANNISSE-ET	840003130067894						
LAMBRECHT JACEY ANNA-A	USA 73808943						
LAMBRECHT JACKMAN 1229	USA 73808957			C			
LAMBRECHT JACKMAN 1231	USA 73808959			C			
LAMBRECHT JACKMAN 1232	USA 73808960						
LAMBRECHT JACKMAN ANA	USA 72678215						
LAMBRECHT JACKMAN ANNISE-ET	USA 72678181						
LAMBRECHT JACKMAN VELVET4	USA 73808964			C			
LAMBRECHT JACKMN ANNAJAC-ET	USA 73808952					C	
LAMBRECHT JACKMN ANNISHA-ET	USA 73808963						
LAMBRECHT JETSET ANNITA	USA 73808982	C					
LAMBRECHT JIVES LORIN	USA 71123629						
LAMBRECHT JOSUPER ANNAJO	840003130067945						
LAMBRECHT JOSUPER LINDA	840003128668718						
LAMBRECHT KBOY ANNALEI-ET	840003128668727						
LAMBRECHT LADD P NADALIN	USA 71776756						1
LAMBRECHT LARSON 1117	USA 72678172						
LAMBRECHT MAC ANABEE 474-ET	USA 66047744						
LAMBRECHT MAC LORI 478	USA 66047748						
LAMBRECHT METEOR ANNAME	840003130067893						
LAMBRECHT MOGUL ANNISO	840003130067958						
LAMBRECHT MOGUL LAURIE	USA 71776740						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAMBRECHT MONTRS ANNISHA-ET	USA 73809020						
LAMBRECHT NUMERO UNO ANABEA	USA 71776754						
LAMBRECHT OAK LANABELE-ET	USA 72678247						
LAMBRECHT OAK LUCY-ET	USA 73808967						
LAMBRECHT OBSRVR ANNASTI-ET	USA 72678245						
LAMBRECHT OCTOBERFEST 1441	840003134297442						
LAMBRECHT OCTOBERFEST 1450	840003134297451						
LAMBRECHT OCTOBERFEST 1454	840003134297455						
LAMBRECHT OTTO ANNE-O 793	USA 68957239						
LAMBRECHT PENLEY LANNIE	840003130067916						
LAMBRECHT PICUS LUCKYRUTH	USA 72678235						
LAMBRECHT PICUS PEACE	USA 72678225						
LAMBRECHT PLAN 924	USA 70692614						
LAMBRECHT PRONTO RONNIE 706	USA 66549967						
LAMBRECHT REDBURST VONNY	USA 71776685		C				1
LAMBRECHT SATCH P VELVET3	USA 71776724						
LAMBRECHT SHAMROCK 1096	USA 71776741						
LAMBRECHT SHAMROCK 965	USA 71123595						
LAMBRECHT SHAMROCK ANNALEY	USA 71776690						
LAMBRECHT SHAMROCK MAXINE	USA 71776742						
LAMBRECHT SHOTGLASS 1171	USA 72678226						
LAMBRECHT SHOTTLE 939	USA 70692629					C	
LAMBRECHT SILVER ANNELEE	840003130067956						
LAMBRECHT SILVER CASSIDE-ET	840003130067939						
LAMBRECHT SSIRE SUPRANN-ET	USA 73809008						
LAMBRECHT SUPERS ANNA-B-ET	USA 71776745						
LAMBRECHT SUPERSIRE ANALEEE	USA 72678246						
LAMBRECHT SYMPATICO GOLDANN	USA 72678244			C			
LAMBRECHT WDBROOK ANNOPY-ET	USA 71776686					C	
LAMBRECHT WICKHAM ANALI	840003130067884						
LAMBRECHT WICKHAM FISCHER	840003130067897						
LAMBRECHT ZENO 1187	USA 72678242						
LAMBRECHT ZENO 1193	USA 72678248						
LAMPORT MARGARITA-ET	840003128712960						
LAMPORT MUNGER TERRASON	USA 63510760						
LANDCREST LWNBOY DANI-P	USA 142008461						
LANDIS-MRK CAMERN ZOLEEN-ET	USA 142069624						
LANDIS-MRK CAMERN ZSAZSA-ET	USA 142069633						
LANDIS-MRK DURABLE SADIE	USA 69798030						3
LANDIS-MRK GOLDWYN SADIE-ET	USA 62934997						
LANDIS-MRK JEEVES SASSY-ET	USA 66128572						
LANDIS-MRK JEEVES SEMIRA-ET	USA 140317776						
LANDIS-MRK MAC SHEREE	USA 64532944						
LANDIS-MRK MIXER ZILLOW	USA 142069615						
LANDIS-MRK MOGUL ZANETA-ET	USA 142155976						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANDIS-MRK MYFELD ZEPHYR-ET	USA 71956469						
LANDIS-MRK MYFIELD ZEBEE-ET	USA 71956470						
LANDIS-MRK PRONTO BLUFF-ET	USA 63818946						3
LANDIS-MRK PRONTO BOBBIE-ET	USA 140401129						
LANDIS-MRK SHOTT SPARKLE-ET	USA 137189902					C	
LANDIS-MRK SPRSR ZELINDA-ET	USA 142155985						
LANDIS-MRK ZDESTINE-ET	USA 71956509						
LANDIS-MRK ZINNIA-ET	USA 71956502						
LANDS-BROOK GOLD DESIRE-ET	USA 56653226						1
LANDSTAD ALWAS SUGAR-RED-ET	840003005149049						
LANE-MEADOW SHOTTLE RUBY	USA 61208367						
LANGMOSEGAARD BOLTON DEEP	DNK 3200302033						
LANGS-TWIN-B A-C SABRINA-ET	USA 66879857						
LANGS-TWIN-B A-J ARIEL-ET	USA 66879874						
LANGS-TWIN-B A-J NATALIE-ET	USA 66879837						1
LANGS-TWIN-B A-J NICOLE-ET	USA 66879836						
LANGS-TWIN-B ABIGAIL-ET	USA 66879955			C			1
LANGS-TWIN-B ADORA-ET	USA 66879975						
LANGS-TWIN-B AL CASSIE-ET	USA 66879805						1
LANGS-TWIN-B AL CINTHYA-ET	USA 66879806						1
LANGS-TWIN-B ALASKA-ET	USA 66879971					C	
LANGS-TWIN-B ALLY-ET	USA 64009138						
LANGS-TWIN-B ALLYSON-ET	USA 64009157						
LANGS-TWIN-B ALYSSA	USA 66879909						
LANGS-TWIN-B AMELIA-ET	USA 66879847					C	
LANGS-TWIN-B ANNABELLE-ET	USA 66879876						
LANGS-TWIN-B ANNIE-ET	USA 66879894						
LANGS-TWIN-B ARABELL-ET	USA 66879885						
LANGS-TWIN-B ARM 4878-ET	USA 70662791						
LANGS-TWIN-B ARMITAGE 4904	USA 70662817						
LANGS-TWIN-B ARMTGE 4884-ET	USA 70662797						
LANGS-TWIN-B ASPEN-ET	USA 66879976					C	
LANGS-TWIN-B ATM-ET	USA 66879886						
LANGS-TWIN-B ATWOOD CHANEL	USA 66879877						
LANGS-TWIN-B ATWOOD ROSELYN	USA 66879889						
LANGS-TWIN-B AUDREY-ET	USA 66879972					C	
LANGS-TWIN-B BAXTER TAMARA	USA 64009168						
LANGS-TWIN-B BOMBERO 5126	USA 73222235						
LANGS-TWIN-B BOOKEM 4850-ET	USA 70662763						
LANGS-TWIN-B BOOKEM 4851-ET	USA 70662764						
LANGS-TWIN-B BOOKEM 4852-ET	USA 70662765						
LANGS-TWIN-B BRENDA	USA 64009110		C				
LANGS-TWIN-B CAM 4893-ET	USA 70662806						
LANGS-TWIN-B CAM 4894-ET	USA 70662807						
LANGS-TWIN-B CAM 4902-ET	USA 70662815						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-B CAM 4906-ET	USA 70662819						
LANGS-TWIN-B CASE-ET	USA 66879929						
LANGS-TWIN-B CATALINA-ET	USA 70662747						
LANGS-TWIN-B CAYLA-ET	USA 70662748						
LANGS-TWIN-B CHARM-ET	USA 66879882						
LANGS-TWIN-B CHASSITY-ET	USA 66879888						
LANGS-TWIN-B CHEV 5074-ET	USA 73222183						
LANGS-TWIN-B CHEV 5075-ET	USA 73222184						
LANGS-TWIN-B CHEV 5076-ET	USA 73222185						
LANGS-TWIN-B CHEV 5081-ET	USA 73222190			C			1
LANGS-TWIN-B CHRISTA-ET	USA 66879944						
LANGS-TWIN-B CHUCKIES-ET	USA 64009208						
LANGS-TWIN-B CINNA-ET	USA 66879946						
LANGS-TWIN-B COMMET-ET	USA 66879965						
LANGS-TWIN-B COMMOTION-ET	USA 66879964						
LANGS-TWIN-B CONNIE-ET	USA 70662751			C			1
LANGS-TWIN-B COSMO-ET	USA 70662749			C			1
LANGS-TWIN-B CR COOKIE-ET	USA 64009083						
LANGS-TWIN-B CRAYOLA5559-ET	USA 70119260						1
LANGS-TWIN-B CRISTY-ET	USA 61741710	C					
LANGS-TWIN-B D-BOY CASEY-ET	USA 60727470						
LANGS-TWIN-B DABBLE-ET	USA 66879898						
LANGS-TWIN-B DADDY 4974-ET	USA 70662887						
LANGS-TWIN-B DADDY 4976-ET	USA 70662889						
LANGS-TWIN-B DAMAR 5166-ET	USA 73222275						
LANGS-TWIN-B DAMAR 5167-ET	USA 73222276						
LANGS-TWIN-B DAMAR 5169-ET	USA 73222278						
LANGS-TWIN-B DAMAR 5170-ET	USA 73222279						
LANGS-TWIN-B DAMAR 5171-ET	USA 73222280						
LANGS-TWIN-B DEFENDER 5048	USA 73222157						
LANGS-TWIN-B DELTA 5203	840003132534924						
LANGS-TWIN-B DELTA 5214	840003132534935						
LANGS-TWIN-B DENVER 5173	USA 73222282						
LANGS-TWIN-B DENVER 5190	840003132534911						
LANGS-TWIN-B DESIREE-ET	USA 61741753						
LANGS-TWIN-B DIST 5053-ET	USA 73222162			C			1
LANGS-TWIN-B DOBERMAN 4854	USA 70662767			C			
LANGS-TWIN-B DOORMAN AUTUMN	840003132534907						1
LANGS-TWIN-B DURHAM LULU	USA 62294244						
LANGS-TWIN-B DYNASTY-ET	USA 61741684						
LANGS-TWIN-B E-HART 5011-ET	USA 70662924			C			1
LANGS-TWIN-B E-HART 5022-ET	USA 70662935						
LANGS-TWIN-B E-HART 5043-ET	USA 73222152						
LANGS-TWIN-B E-HART 5086-ET	USA 73222195						
LANGS-TWIN-B EPIC 4923-ET	USA 70662836						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-B EPIC 4935-ET	USA 70662848						
LANGS-TWIN-B EPIC 4938-ET	USA 70662851						
LANGS-TWIN-B EXPLODE 4965	USA 70662878						
LANGS-TWIN-B FANTASIA-ET	USA 66879925			C			
LANGS-TWIN-B FLAME 5147	USA 73222256						
LANGS-TWIN-B FRED ASPEN-ET	USA 66879916						1
LANGS-TWIN-B FREDDIE 5037	USA 73222146					C	
LANGS-TWIN-B FREDDIE ANNIE	USA 66879830						
LANGS-TWIN-B G-CHIP 4886-ET	USA 70662799						
LANGS-TWIN-B GLITZ-ET	USA 66879933					C	
LANGS-TWIN-B GOLD CARMEL-ET	USA 66879810						1
LANGS-TWIN-B GOLD SPICE-ET	USA 66879792						1
LANGS-TWIN-B GOLDWYN AMAZE	USA 66879948						
LANGS-TWIN-B JACEY 5000-ET	USA 70662913						
LANGS-TWIN-B JEEVES CARI-ET	USA 66879865						
LANGS-TWIN-B JESSICA-ET	USA 64009171			C			
LANGS-TWIN-B JOSEY-ET	USA 66879919						
LANGS-TWIN-B K-BOY 5109-ET	USA 73222218						
LANGS-TWIN-B K-BOY 5111-ET	USA 73222220						
LANGS-TWIN-B K-BOY 5119-ET	USA 73222228						
LANGS-TWIN-B K-BOY 5127-ET	USA 73222236						
LANGS-TWIN-B K-BOY 5137-ET	USA 73222246						
LANGS-TWIN-B K-BOY 5153-ET	USA 73222262						
LANGS-TWIN-B K-BOY 5158-ET	USA 73222267						
LANGS-TWIN-B KAYLYN-ET	USA 66879956						
LANGS-TWIN-B KINGBOY 5187	840003132534908			C			
LANGS-TWIN-B KINGBOY 5201	840003132534922						
LANGS-TWIN-B KULP-P 5032-ET	USA 73222141						
LANGS-TWIN-B KULP-P 5050-ET	USA 73222159						
LANGS-TWIN-B KULP-P 5051-ET	USA 73222160						
LANGS-TWIN-B KULP-P 5052-ET	USA 73222161						
LANGS-TWIN-B KULP-P 5055-ET	USA 73222164						
LANGS-TWIN-B LAUNCH 5121	USA 73222230						
LANGS-TWIN-B LAUNCH 5125	USA 73222234						
LANGS-TWIN-B LITH 4968-ET	USA 70662881						
LANGS-TWIN-B LOTT 5133-ET	USA 73222242						
LANGS-TWIN-B LOTT 5134-ET	USA 73222243						
LANGS-TWIN-B LOTTERY-ET	USA 66879940						1
LANGS-TWIN-B LOTTO-ET	USA 66879938						
LANGS-TWIN-B M-O ALAINA-ET	USA 66879863					C	
LANGS-TWIN-B M-O ALEECE-ET	USA 66879864					C	
LANGS-TWIN-B MAC CANDACE-ET	USA 64009101						
LANGS-TWIN-B MAC CANDLE-ET	USA 64009134						
LANGS-TWIN-B MAC CANDY-ET	USA 64009100						
LANGS-TWIN-B MAN-0 ANGEL-ET	USA 66879855						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-B MAN-O SUGAR-ET	USA 66879859						
LANGS-TWIN-B MAN-O SWEET-ET	USA 66879852						
LANGS-TWIN-B MC 4941-ET	USA 70662854						
LANGS-TWIN-B MCCUTCHEN 5014	USA 70662927						
LANGS-TWIN-B MCCUTCHEN 5029	USA 73222138					C	
LANGS-TWIN-B MCCUTCHEN 5046	USA 73222155						
LANGS-TWIN-B MCCUTCHEN 5088	USA 73222197						
LANGS-TWIN-B MEG TONYA-ET	USA 66879791						
LANGS-TWIN-B MILL ATHENA-ET	USA 66879807		C				
LANGS-TWIN-B MISS 5148-ET	USA 73222257					C	
LANGS-TWIN-B MISS 5149-ET	USA 73222258						
LANGS-TWIN-B MISS 5150-ET	USA 73222259						
LANGS-TWIN-B MISSOURI 5162	USA 73222271						
LANGS-TWIN-B MOGUL 4913-ET	USA 70662826						
LANGS-TWIN-B MOGUL 4914-ET	USA 70662827						
LANGS-TWIN-B MOGUL 4915-ET	USA 70662828						
LANGS-TWIN-B MOGUL 4921-ET	USA 70662834						
LANGS-TWIN-B MOGUL 4927-ET	USA 70662840						
LANGS-TWIN-B MOGUL 4931-ET	USA 70662844						
LANGS-TWIN-B MOGUL 4933	USA 70662846						
LANGS-TWIN-B MOGUL 4947-ET	USA 70662860						
LANGS-TWIN-B MOGUL 4949-ET	USA 70662862						
LANGS-TWIN-B MOGUL 4951-ET	USA 70662864						
LANGS-TWIN-B MOGUL 4954-ET	USA 70662867						
LANGS-TWIN-B MOGUL 5047	USA 73222156						
LANGS-TWIN-B MOGUL 5078-ET	USA 73222187						
LANGS-TWIN-B MONT 5139-ETS	USA 73222248						
LANGS-TWIN-B MONT 5140-ETS	USA 73222249						
LANGS-TWIN-B MONT 5143-ET	USA 73222252						
LANGS-TWIN-B MONT 5161-ET	USA 73222270						
LANGS-TWIN-B MONT 5164-ET	USA 73222273						
LANGS-TWIN-B MONT 5165-ET	USA 73222274						
LANGS-TWIN-B MONT 5175-ET	USA 73222284						
LANGS-TWIN-B MONT 5177-ET	840003132534898						
LANGS-TWIN-B MONTRO 5178-ET	840003132534899						
LANGS-TWIN-B MONTRO 5180-ET	840003132534901						
LANGS-TWIN-B MONTRO 5182-ET	840003132534903						
LANGS-TWIN-B MONTRO 5183-ET	840003132534904						
LANGS-TWIN-B MS CHERISH-ET	USA 66879922			C			
LANGS-TWIN-B MS JENNY-ET	USA 66879918			C			
LANGS-TWIN-B MUS 5151-TW	USA 73222260						
LANGS-TWIN-B MUS 5152-TW	USA 73222261						
LANGS-TWIN-B NUMER UNO 4937	USA 70662850						
LANGS-TWIN-B O-MAN MARIA-ET	USA 61741661			C			
LANGS-TWIN-B O-STYLE 4870	USA 70662783			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-B OBS 5038-ET	USA 73222147						
LANGS-TWIN-B OBS 5040-ET	USA 73222149						
LANGS-TWIN-B OBS 5041-ET	USA 73222150						
LANGS-TWIN-B OBS 5042-ET	USA 73222151						
LANGS-TWIN-B OBS 5085-ET	USA 73222194						
LANGS-TWIN-B OBS 5087-ET	USA 73222196						
LANGS-TWIN-B OBSRVR 5560-ET	USA 70119261			C			1
LANGS-TWIN-B OHARE 5100-ET	USA 73222209			C			
LANGS-TWIN-B PEARL-ET	USA 70662740						
LANGS-TWIN-B PP 5098-RED-ET	USA 73222207						
LANGS-TWIN-B PP 5103	USA 73222212						
LANGS-TWIN-B PRAIRIE-ET	USA 70662741						
LANGS-TWIN-B PRECIOUS-ET	USA 70662743						
LANGS-TWIN-B PRED 4992-ET	USA 70662905						3
LANGS-TWIN-B PRINCESS-ET	USA 66879832						1
LANGS-TWIN-B PROMIS-ET	USA 70662742						
LANGS-TWIN-B RAMOS AMANDA	USA 64009185						
LANGS-TWIN-B RAMOS COOKIE	USA 64009215						
LANGS-TWIN-B RAMOS TANYA-ET	USA 64009079						
LANGS-TWIN-B ROBST C5660-ET	USA 70119361			C			
LANGS-TWIN-B ROBST C5665-ET	USA 70119366						
LANGS-TWIN-B RUBICON 5206	840003132534927						
LANGS-TWIN-B RUBICON 5210	840003132534931					C	
LANGS-TWIN-B S-SIRE 4961-ET	USA 70662874						
LANGS-TWIN-B S-SIRE 4980-ET	USA 70662893						
LANGS-TWIN-B S-SIRE 4981-ET	USA 70662894						
LANGS-TWIN-B S-SIRE 5030-ET	USA 73222139			C			
LANGS-TWIN-B S-SIRE 5059-ET	USA 73222168						
LANGS-TWIN-B S-SIRE 5062-ET	USA 73222171						
LANGS-TWIN-B S-SIRE 5065-ET	USA 73222174						
LANGS-TWIN-B S-SIRE 5084-ET	USA 73222193						
LANGS-TWIN-B S-SIRE 5090-ET	USA 73222199			C			
LANGS-TWIN-B S-SIRE 5096-ET	USA 73222205			C			
LANGS-TWIN-B SHAM 4864-ET	USA 70662777						
LANGS-TWIN-B SHAM 4873-ET	USA 70662786						
LANGS-TWIN-B SHAMROCK 4872	USA 70662785						
LANGS-TWIN-B SHAMROCK 4880	USA 70662793						
LANGS-TWIN-B SHAN 4996-ET	USA 70662909						
LANGS-TWIN-B SHAN 5003	USA 70662916						
LANGS-TWIN-B SHERRY-ET	USA 66879904						
LANGS-TWIN-B SIENNA-ET	USA 66879901						
LANGS-TWIN-B SILVER 5179-ET	840003132534900						
LANGS-TWIN-B SILVER 5181-ET	840003132534902						
LANGS-TWIN-B SILVER 5188-ET	840003132534909						
LANGS-TWIN-B SNOW 4859-ET	USA 70662772						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-B SNOW 4860-ET	USA 70662773			C			
LANGS-TWIN-B SNOW 4866-ET	USA 70662779						
LANGS-TWIN-B SNOW 4867-ET	USA 70662780						
LANGS-TWIN-B SNOW 4868-ET	USA 70662781			C			
LANGS-TWIN-B SNOW 4987-ET	USA 70662900			C			
LANGS-TWIN-B SP-S 4958-ET	USA 70662871						
LANGS-TWIN-B STONEWAL 5212	840003132534933			C			
LANGS-TWIN-B SUDAN 4907-ET	USA 70662820						
LANGS-TWIN-B SUPER 4942-ET	USA 70662855			C			
LANGS-TWIN-B SUPER EMBER-ET	USA 66879951						
LANGS-TWIN-B SUPER JENNA-ET	USA 66879952						
LANGS-TWIN-B SUPERSIRE 5110	USA 73222219						
LANGS-TWIN-B SUPERSIRE 5207	840003132534928						
LANGS-TWIN-B TOM CREDA-ET	USA 70662755						
LANGS-TWIN-B UNO 4945-ET	USA 70662858						
LANGS-TWIN-B UNO 4964-ET	USA 70662877						
LANGS-TWIN-B UNO 4977-ET	USA 70662890			C			1
LANGS-TWIN-B UNO 4978-ET	USA 70662891			C			
LANGS-TWIN-B UNO 5027-ET	USA 73222136						
LANGS-TWIN-B UNO 5056-ET	USA 73222165						
LANGS-TWIN-ELM ANGLE-ET	840003132534910						
LANGS-TWIN-ELM AT BETTY-ET	USA 141363417						
LANGS-TWIN-ELM BABY-ET	USA 73222176						
LANGS-TWIN-ELM BAMBI-ET	USA 70662898						
LANGS-TWIN-ELM BEAUTY-ET	USA 73222177						
LANGS-TWIN-ELM BECKY-ET	USA 73222178						
LANGS-TWIN-ELM BELLA	USA 70662932						
LANGS-TWIN-ELM BETH-ET	USA 73222179						
LANGS-TWIN-ELM BETHANN-ET	USA 73222254						
LANGS-TWIN-ELM BETSY-ET	USA 70662899						
LANGS-TWIN-ELM BOOTS-ET	USA 70662929						
LANGS-TWIN-ELM JAMAR BETSY	USA 70662752						
LANGS-TWIN-ELM KALCIO-ET	840003132534925						
LANGS-TWIN-ELM KANDY-ET	840003132534920						
LANGS-TWIN-ELM KITE	USA 70662750						
LANGS-TWIN-ELM MON MOLLY-ET	USA 73644714						
LANGS-TWIN-ELM O PRETTY R-1	USA 141394231						
LANGS-TWIN-ELM PEACHES-ET	USA 70662917						
LANGS-TWIN-ELM PEPPER-ET	840003132534917						
LANGS-TWIN-ELM PERKY	840003132534912						
LANGS-TWIN-ELM POLLY-ET	USA 70662896						
LANGS-TWIN-ELM POPPY-ET	USA 70662897						
LANGS-TWIN-ELM PRANCER-ET	840003132534919			C			
LANGS-TWIN-ELM PRECIOUS-ET	USA 70662920						
LANGS-TWIN-ELM PRINCESS-ET	USA 70662919						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LANGS-TWIN-ELM ROB RAVEN-ET	USA 73644709						
LANGS-TWIN-ELM ROB ROSEY-ET	USA 73644710						
LANGS-TWIN-ELM ROB ROXIE-ET	USA 66929127						
LANGS-TWIN-ELM S-ROCK REBEL	USA 141922663						
LANGS-TWIN-ELM SH BESSIE-ET	USA 70662915						
LANGS-TWIN-ELM SNOWFLAKE-ET	USA 66879803					C	
LANGS-TWIN-ELM SS PAM-ET	USA 70662918						
LANGS-TWIN-ELM SS PEARL-ET	USA 70662921						
LANGS-TWIN-ELM STARLIGHT-ET	840003132534923						
LANGS-TWIN-ELM SUNSHINE-ET	840003132534918						
LANGS-VALLEY LEXOR RUBY-ET	USA 72124362						
LANGS-VALLEY MCCUTENS RAGEN	USA 73183262						
LANGS-VALLEY SILVER RACH-ET	USA 73644700						
LANGS-VALLEY YODER RONNIE	USA 73644695						
LANGS-VALLEY YODR RHONDA-ET	USA 73644696						
LANTLAND LUCIFER IMAGINE	USA 138162810						
LAPHALL LIGHTNING JOYCE	USA 140899014						
LAR-DELL DENVER BELLA-ET	USA 143511030						
LAR-DELL DENVER BELLE-ET	USA 143511049						
LAR-DELL DENVER BELLYRUB-ET	USA 143637039						
LAR-DELL DENVER BROOKE-ET	USA 143637048						
LAR-DELL DENVER MACY-ET	USA 143539162						
LAR-DELL DENVER MARGO-ET	USA 143543789						
LAR-DELL DENVER MARLY-ET	USA 143543798						
LAR-DELL DENVER MERCY-ET	USA 143542920						
LAR-DELL DENVER SKYLAR-ET	USA 143542911						
LAR-DELL MONTROS MONTANA-ET	USA 143406637						
LAR-DELL MONTROSS MILEY-ET	USA 143425957						
LAR-DELL OCEAN MERICA-ET	USA 143483779						
LAR-DELL OCEANPP BOUNTY P	USA 143587419						1
LAR-DELL OCN MADISON-PO-ET	USA 143505925						
LAR-DELL RUBICON BECCA-ET	USA 143605429						
LAR-DELL RUBICON BINDY-ET	USA 143605401						
LAR-DELL RUBICON BRIANA-ET	USA 143605399						
LAR-DELL RUBICON BRYLEE-ET	USA 143605410						
LAR-DELL RUBICON SHELBY-ET	USA 143598873						
LAR-DELL SILVER BANGLES-ET	USA 143424219						
LAR-DELL SPRING BAILEY-ET	USA 143519001						
LAR-DELL SPRING BISCUIT-ET	USA 143539153						
LAR-DELL SPRING MINDY-ET	USA 143616883						
LAR-DELL SPRING MIRACLE-ET	USA 143528801						
LAR-DELL SPRING MOXIE-ET	USA 143523039						
LAR-DELL YODER MAGGIE	USA 143569976						
LAR-LAN BAXTER APPLE-ET	USA 64009876						
LAR-LAN KK FORTUNE AMBER	USA 64010188						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAR-LAN KK GOLDWYN ANN-ET	USA 137370678						
LAR-LAN KK GWYN ANGELINA-ET	USA 137234312						
LAR-LAN TIME ANNABELLE	USA 69113529						
LARBUCKS BABY IOTA-ET	USA 141947279						
LARBUCKS CASSIDY-ET	USA 56629684						
LARBUCKS COCO-ET	USA 56629685						
LARBUCKS IOTA BRANDY-ET	USA 141915708						
LARBUCKS WILLPOWER CHARM	USA 56629686						
LARCREST A-CORN-ET	USA 73241507						
LARCREST ARTIC BLAST	USA 73680013						
LARCREST BOASTFUL 3583	USA 75515909						
LARCREST BOMBERO 3109-ET	USA 143355566						
LARCREST BOMBERO 3557-ET	USA 143355490						
LARCREST BOMBERO 3563-ET	USA 143355575						
LARCREST BOMBERO 3567-ET	USA 143399410						
LARCREST BOMBERO 3569-ET	USA 143399429						
LARCREST CAB-ET	USA 52734917						
LARCREST CABANA-ET	USA 141566173						
LARCREST CABARET-ET	USA 58591930						
LARCREST CABBAGE	USA 57187350						
LARCREST CABELLO-ET	USA 73221524						
LARCREST CABINDA	USA 58591937						
LARCREST CABOODLE	USA 57187020						
LARCREST CABOOSE-ET	USA 57187826						
LARCREST CABRETTA-ET	USA 74598073						
LARCREST CABRILLA-ET	USA 74598077						
LARCREST CABRIO-ET	USA 74598071						
LARCREST CABRIOLET-ET	USA 52734933						
LARCREST CACCIATORE-ET	USA 58591933						
LARCREST CACHALOT-ET	USA 74598078						
LARCREST CACHITO-ET	USA 58591941						
LARCREST CACHTI	USA 58591936					C	
LARCREST CACKLE-ET	USA 143218021						
LARCREST CACoon-ET	USA 74598072						
LARCREST CADBURY-ET	USA 58591938						
LARCREST CADESHA	USA 58591961						
LARCREST CADRA-ET	USA 143218030						
LARCREST CAESIUM-ET	USA 74598070						
LARCREST CAFE-ET	USA 57187829						
LARCREST CAFFERY	USA 58591919						1
LARCREST CAFTAN-ET	USA 57187833						
LARCREST CAGNEY-ET	USA 57187821						
LARCREST CAHILL-ET	USA 143218049						
LARCREST CAHINCA-ET	USA 143218067						
LARCREST CAHOOTS-ET	USA 52734919						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

54

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CAKE-ET	USA 56265356						
LARCREST CALABASBAS-ET	USA 143218085						
LARCREST CALADIUM-ET	USA 58591950						
LARCREST CALAHARI-ET	USA 57187874						
LARCREST CALALOO-ET	USA 74591441						
LARCREST CALAMARI-ET	USA 57187820						
LARCREST CALAMINE-ET	USA 57187823						
LARCREST CALANI-ET	USA 57187872						
LARCREST CALCIUM-ET	USA 74591449						
LARCREST CALE-ET	USA 56265400						
LARCREST CALEETA-ET	USA 73672361						
LARCREST CALIA-ET	USA 70119400						
LARCREST CALICO-ET	USA 74591438						
LARCREST CALINDA-ET	USA 70119330						
LARCREST CALISSIA-ET	USA 74630763						
LARCREST CALLA LILY-ET	USA 58591974						
LARCREST CALLAWAY-ET	USA 70119365						
LARCREST CALLEIGH-ET	USA 74032295						
LARCREST CALLIGRAPHY-ET	USA 52734920						3
LARCREST CALLOW	USA 57187880						
LARCREST CALLUNA-ET	USA 74591434						
LARCREST CALORIE-ET	USA 70119356						
LARCREST CALTRATE	USA 73221522						
LARCREST CALYX-ET	USA 53766392						
LARCREST CALZONE-ET	USA 57187038						
LARCREST CAMARADERIE-ET	USA 57187888						
LARCREST CAMARILLA	USA 58591926						
LARCREST CAMBRIA-ETS	USA 56264527						
LARCREST CAMDI-ET	USA 57187367			C			
LARCREST CAMEL-ET	USA 57187393						
LARCREST CAMELLIA	USA 57187885						
LARCREST CAMEO-ET	USA 57187881						
LARCREST CAMEROON-ET	USA 52734921						
LARCREST CAMI-ET	USA 58591973						
LARCREST CAMO-ET	USA 74591433						
LARCREST CAMORA-ET	USA 74591445						
LARCREST CAMORRA-ET	USA 56264631						
LARCREST CAMPAIGN-ET	USA 74598061						
LARCREST CAMPANA-ET	USA 74598063						
LARCREST CAMPARI-ET	USA 58591949						
LARCREST CAMPESE-ET	USA 74591435						
LARCREST CAN-CAN-ET	USA 52734924						
LARCREST CANA-ET	USA 58591925						
LARCREST CANAL-ET	USA 74598080						
LARCREST CANANI-ET	USA 73765338						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CANAPE-ET	USA 57187345						
LARCREST CANASTA-ET	USA 52734923						
LARCREST CANBERRA-ET	USA 74630757						
LARCREST CANDESCENT-ET	USA 74032296						
LARCREST CANDID-ETS	USA 56264520						
LARCREST CANDLEBERRY-ET	USA 58591924						
LARCREST CANDLELITE-ET	USA 74598065						
LARCREST CANDLESTICK-ET	USA 74598064						
LARCREST CANDLEWICK-ET	USA 74598066						
LARCREST CANDLEWOOD-ET	USA 74598067						
LARCREST CANDY APPLE-ET	USA 57187822						
LARCREST CANDY CANE-ET	USA 57187050			C			
LARCREST CANDY CRUSH-ET	USA 78008558	C					
LARCREST CANDYGRAM-ET	USA 74630758						
LARCREST CANDYTUFT-ET	USA 52734901						
LARCREST CANISTOTA-ET	USA 75746428						
LARCREST CANNA-ET	USA 57187831						
LARCREST CANNES-ET	USA 73765339						
LARCREST CANOPY-ET	USA 52734926						3
LARCREST CANTALOUPE-ET	USA 57187804						
LARCREST CANTANTE	USA 58591929						
LARCREST CANTARA-ET	USA 75746437						
LARCREST CANTEEN-ET	USA 52734928						
LARCREST CANTER-ET	USA 74591436						
LARCREST CANTERBURY-ET	USA 74598060						
LARCREST CANTINA-ET	USA 52734935						3
LARCREST CANTO 2-ETN	840003125202046						
LARCREST CANTO-ET	USA 58591952						
LARCREST CANTONISE-ET	USA 74630759						
LARCREST CANYON	USA 57187384						
LARCREST CANZONI-ET	USA 74630768						
LARCREST CAPACITY-ET	USA 74630761						
LARCREST CAPE COD-ET	USA 74598062						
LARCREST CAPELLA-ET	USA 73879229		C				
LARCREST CAPRENO-ET	USA 73870384						
LARCREST CAPRICIOUS-ET	USA 58591928						
LARCREST CAPYBARA-ET	USA 57187858						
LARCREST CARA-ET	USA 53452470						
LARCREST CARABELLA-ET	USA 53766355					C	
LARCREST CARAJEAN-ET	USA 57187838						
LARCREST CARALYNN-ET	USA 53766356						
LARCREST CARAMEL APPLE-ET	USA 57187824						
LARCREST CARAT-ET	USA 74591442						
LARCREST CARAVAN-ET	USA 57187815						
LARCREST CARBONARA-ET	USA 74630760			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CARDIGAN-ET	USA 58591904						
LARCREST CARDOON-ET	USA 73329786						
LARCREST CAREFREE-ET	USA 58591906						
LARCREST CAREGIVER-ET	USA 78170431						
LARCREST CARELESS-ETS	USA 56265393						
LARCREST CAREW-ET	USA 70119329						
LARCREST CARIA-ET	USA 74598056						
LARCREST CARIBOO-ET	USA 74591437						
LARCREST CARING-ET	USA 57187813						
LARCREST CARLENE-ET	USA 73743474						
LARCREST CARLIN-ET	USA 70119345						
LARCREST CARLINA-ET	USA 56264546						
LARCREST CARMELITA-ET	USA 73870388						
LARCREST CARMELO	USA 57187870						
LARCREST CARMICHAEL-ET	USA 74591444						
LARCREST CARMINDY-ET	USA 73221525						
LARCREST CARPACCIO	USA 74591448						
LARCREST CARPE DIEM-ET	USA 74591439						
LARCREST CARRABBA-ET	USA 57187855						
LARCREST CARRARA-ET	USA 74598057						
LARCREST CARRIAGE-ET	USA 74598079						
LARCREST CARRICK-ET	USA 74598059						
LARCREST CARRIE ANN-ET	USA 53454850						3
LARCREST CARTARA-ET	USA 57187841						
LARCREST CARTIER-ET	USA 57187852						
LARCREST CARTOON	USA 57187853						
LARCREST CARTWHEEL-ET	USA 74630769						
LARCREST CASCADIA-ETS	USA 56264639						
LARCREST CASE-ETS	USA 56264512						
LARCREST CASHIRI-ET	USA 143218012						
LARCREST CASSABA-ET	USA 74598081						
LARCREST CASSEOPIA-ET	USA 78114921						
LARCREST CASSIA-ET	USA 52475653						
LARCREST CASSONDRA-ET	USA 58591959						
LARCREST CATALONIA-ET	USA 72772744						1
LARCREST CATALPA-ET	USA 73221523						
LARCREST CATANIA-ET	USA 72865197						
LARCREST CATARRH-ET	USA 57187851						
LARCREST CATATONIA-ET	USA 73679992						
LARCREST CATE-ET	USA 56264591						3
LARCREST CATENA-ET	USA 73968003						
LARCREST CATER-ET	USA 73221527						
LARCREST CATERAN-ET	USA 72865199						1
LARCREST CATERINA	USA 58591985						
LARCREST CATERPILLAR	USA 72764063						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

57

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CATHEDRA-ET	USA 73968002						
LARCREST CATHOLIC-ET	USA 57187073						
LARCREST CATINA-ET	USA 73221532						
LARCREST CATNIP	USA 57187850						
LARCREST CATNISS-ET	USA 57187869						1
LARCREST CATO-ET	USA 56264562						3
LARCREST CATORI-ET	USA 58591963						
LARCREST CATRON-ET	USA 73967998						
LARCREST CATTAIL-ET	USA 57187849	C					
LARCREST CAULIFLOWER	USA 57187805						
LARCREST CAVA-ET	USA 73967987						
LARCREST CAVALLI-ET	USA 70119402						
LARCREST CAVENAGH-ET	USA 73967988						
LARCREST CAVIAR-ET	USA 53766391						
LARCREST CAVITA-ET	USA 57187878						
LARCREST CAYMAN-ET	USA 56265362						
LARCREST CEARA-ET	USA 73967989						
LARCREST CECE	USA 73241514						
LARCREST CEE SAW-ET	USA 75746417						
LARCREST CEESTAR-ET	USA 75746429						
LARCREST CELEBRATED-ET	USA 74032297						
LARCREST CELESTIAL-ET	USA 57187899						
LARCREST CELICA-ET	USA 57187818						
LARCREST CELTIC-ET	USA 58591958		C				
LARCREST CENTERED-ET	USA 74032294						
LARCREST CENTERPIECE-ET	USA 57187883						
LARCREST CEO-ET	USA 78170441						
LARCREST CEREAL	USA 57187817						
LARCREST CERIUM-ET	USA 74598075						
LARCREST CEVICHE-ET	USA 57187854						
LARCREST CHAIN-ET	USA 78170443						
LARCREST CHAKA-ETS	USA 56264640						
LARCREST CHAKRA-ET	USA 57187843						
LARCREST CHALET-ET	USA 70119398						
LARCREST CHALICE-ET	USA 139972438					C	
LARCREST CHALLENGE-ET	USA 57187816						
LARCREST CHAMBERMAID	USA 57187889						
LARCREST CHANDELIER-ET	USA 53766320						
LARCREST CHANDRA-ET	USA 52475235			C			
LARCREST CHANTILLY-ET	USA 57187865						
LARCREST CHANTIX-ET	USA 57187070						
LARCREST CHAPERONE-ET	USA 57187892						
LARCREST CHARATA-ET	USA 73870386						
LARCREST CHARIOT-ET	USA 57187394						
LARCREST CHARISSE-ET	USA 73221528						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CHARLATAN-ET	USA 57187859						
LARCREST CHARLOTTE-ET	USA 52475268						1
LARCREST CHARMED-ET	USA 142074019						
LARCREST CHARMIN-ET	USA 73680022						
LARCREST CHARTREUSE-ET	USA 53452466						
LARCREST CHASKA-ET	USA 58597612						
LARCREST CHASTAIN-ET	USA 57187863						
LARCREST CHASTE-ET	USA 57187890						
LARCREST CHATIMA-ET	USA 58591969						
LARCREST CHAVONNE-ET	USA 56264554						
LARCREST CHAYLEN-ET	USA 57187332						3
LARCREST CHAYTON-ET	USA 57187344						
LARCREST CHEERFUL-ET	USA 74032299						
LARCREST CHEERY-ETS	USA 56265398						
LARCREST CHEESE WHIZ-ET	USA 73221530						
LARCREST CHEEZ IT-ET	USA 75746422						
LARCREST CHEF-ET	USA 73672357						1
LARCREST CHELBY-ET	USA 57187383						
LARCREST CHEMISE-ET	USA 57187897						
LARCREST CHENILE-ET	USA 53452465						
LARCREST CHENILLE-ET	USA 53452418						
LARCREST CHENOA-ETS	USA 56264510						
LARCREST CHERISH-ET	USA 57187895						
LARCREST CHERUB-ET	USA 57187377						
LARCREST CHEMA-ET	USA 139972483						
LARCREST CHEYANNA-ET	USA 58597614			C			
LARCREST CHIANA-ET	USA 57187349						
LARCREST CHICHI-ET	USA 56265342						
LARCREST CHICKADEE-ET	USA 57187373						
LARCREST CHICKASAW-ET	USA 75746432						
LARCREST CHICKPEA-ET	USA 72865202						
LARCREST CHIFFONADE-ET	USA 57187844						
LARCREST CHILLAX-ET	USA 75746419						
LARCREST CHIME-ET	USA 57187363						
LARCREST CHINA-ET	USA 73241503						
LARCREST CHINCHILLA-ET	USA 57187896						
LARCREST CHINO-ET	USA 57187807						
LARCREST CHIPAYA-ET	USA 73765335						
LARCREST CHIPMONK-ET	USA 57187379						
LARCREST CHIPOLATA-ET	USA 72772738						
LARCREST CHIPPER-ET	USA 57187046						
LARCREST CHIRP-ET	USA 78008557						
LARCREST CHLOE-ET	USA 56264594						3
LARCREST CHLORINE-ET	USA 74598074						
LARCREST CHOBANI-ET	USA 57187861						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CHOCOLATE-ET	USA 53452423						
LARCREST CHOCTAW-ET	USA 57187374						
LARCREST CHOICE-ET	USA 74032300						
LARCREST CHOKECHERRY-ET	USA 78114922						1
LARCREST CHOP SUEY-ET	USA 75746421						
LARCREST CHOPIN-ET	USA 78170436						
LARCREST CHORIZO-ET	USA 72772739						
LARCREST CHORTLE-ET	USA 78170437						
LARCREST CHORUS-ET	USA 57187371						
LARCREST CHOW CHOW-ET	USA 75746420						
LARCREST CHOW MEIN-ET	USA 73870390		C				
LARCREST CHRISTABEL-ET	USA 73879226						
LARCREST CHRISTELA-ET	USA 74598058						
LARCREST CHRISTEN-ET	USA 53452473		C				
LARCREST CHRYSALIS-ET	USA 57187359						
LARCREST CHRYSANTHEMUM-ET	USA 56264507						
LARCREST CHUCKLE-ET	USA 52734904						
LARCREST CHULA-ET	USA 57187376						
LARCREST CHURRO-ET	USA 57187370						
LARCREST CHUTNEY-ET	USA 57187336						
LARCREST CHUTZPAH-ET	USA 57187364						
LARCREST CIABATTA-ET	USA 72764059						
LARCREST CIAO-ET	USA 72764058						
LARCREST CICADA-ET	USA 72764062						
LARCREST CIDER-ET	USA 57187335						
LARCREST CILANTRO-ETS	USA 57187048						
LARCREST CIMBAL-ET	USA 74630764						
LARCREST CINDER-ET	USA 56264548						3
LARCREST CINEMA-ET	USA 57187365						
LARCREST CINEMATIC-ET	USA 78008553						
LARCREST CINERGY-ET	USA 57187069						
LARCREST CINNABAR-ET	USA 72764060						
LARCREST CINNAMON-ET	USA 53452486						
LARCREST CINNCINNATI-ET	USA 57187316						
LARCREST CINQUE-ET	USA 73241508						
LARCREST CION-ET	USA 73221529						
LARCREST CIOPPINO-ET	USA 72772741						
LARCREST CIPRIANI-ET	USA 73967993					C	
LARCREST CIPRO-ET	USA 73967992						
LARCREST CIRCA-ET	USA 73967994						
LARCREST CIRCADIEN-ET	USA 73967984					C	
LARCREST CIRCASSIA-ET	USA 73967985						
LARCREST CIRCE-ET	USA 73967995						
LARCREST CIRCULAR-ET	USA 73968001						
LARCREST CIRCULET-ET	USA 73967997						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CIRE-ET	USA 73221533						
LARCREST CIRRHINA-ET	USA 73241515						3
LARCREST CIRRI	USA 73680008						
LARCREST CIRTA-ET	USA 73680018						1
LARCREST CITHARA-ET	USA 73680027						
LARCREST CITI-ET	USA 73672363						
LARCREST CITIUM-ET	USA 73679986						
LARCREST CITROEN-ET	USA 73679996						1
LARCREST CITRONELLA-ET	USA 57187356						
LARCREST CITRUS-ET	USA 57187369						
LARCREST CITYSCAPE-ET	USA 73679991						
LARCREST CIVATTE-ET	USA 73679990						
LARCREST CIVET-ET	USA 73679983						
LARCREST CIVIC-ET	USA 73679978						
LARCREST CIVILIZE-ET	USA 73679975						
LARCREST CIXI-ET	USA 73679976						
LARCREST CLADONIA-ET	USA 73679980						
LARCREST CLAIBORNE-ET	USA 73221537						
LARCREST CLAIM-ET	USA 78170442						
LARCREST CLAIREN-ET	USA 57187387						
LARCREST CLAMOR-ET	USA 73672354						1
LARCREST CLAMOUR-ET	USA 73968005						
LARCREST CLAREMONT-ET	USA 73221534			C			
LARCREST CLARENDON-ET	USA 73679981						
LARCREST CLARICE-ET	USA 139972474						
LARCREST CLARIFICATION-ET	USA 73679982						
LARCREST CLARIFY-ET	USA 73679987						
LARCREST CLARINET-ET	USA 57187378			C			
LARCREST CLARION-ET	USA 57187354						
LARCREST CLARISSA-ET	USA 73680019						
LARCREST CLARK BAR-ET	USA 75746442						
LARCREST CLASSICAL-ET	USA 57187357						
LARCREST CLASSY-ET	USA 56265388						
LARCREST CLATTER-ET	USA 73679989						
LARCREST CLAVARIA-ET	USA 73679985						
LARCREST CLEAR-ET	USA 73221539			C			
LARCREST CLEARLY-ET	USA 73672353	C					
LARCREST CLEARWATER-ET	USA 73679995						
LARCREST CLEMATIS-ET	USA 73241516						
LARCREST CLEMENTINE-ET	USA 73221538						
LARCREST CLEVELAND-ET	USA 57187056						
LARCREST CLEVER-ETS	USA 139972447						
LARCREST CLIQUE-ET	USA 139972465						
LARCREST CLODIA-ET	USA 73672355	C					
LARCREST CLOUD 9-ET	USA 78008554						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

61

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CLUELESS	USA 52734918						
LARCREST COAL-ET	USA 53766317						
LARCREST COAST-ET	USA 141566164						
LARCREST COASTAL-ET	USA 73241518						
LARCREST COAX-ET	USA 141566155						
LARCREST COBBLER-ET	USA 73241498						
LARCREST COCCINES-ET	USA 73680016						
LARCREST COCKATIEL-ET	USA 73680030						
LARCREST COCKATOO-ET	USA 52734905						
LARCREST COCO DE MER-ET	USA 73680011						1
LARCREST COCOA-ET	USA 73680024						
LARCREST COCONUT-ET	USA 141566856						
LARCREST CODA-ET	USA 57187866						
LARCREST CODEINE-ET	USA 73680009						1
LARCREST CODETTA-ET	USA 73680023						
LARCREST COERCE-ET	USA 73672356	C					
LARCREST COEXIST-ET	USA 73672351			C			
LARCREST COHORT-ET	USA 78170428						
LARCREST COKE-ET	USA 73680029						
LARCREST COLABELLO-ET	USA 72865205						
LARCREST COESLAW-ET	USA 73680028						
LARCREST COLETTE-ET	USA 73241504						
LARCREST COLGATE-ET	USA 73680015						
LARCREST COLLAGE-ET	USA 72764061						
LARCREST COLLECT-ET	USA 73679994						
LARCREST COLLETTE-ET	USA 73765333						
LARCREST COLOGNE-ET	USA 141566865						
LARCREST COLONIA-ET	USA 73679984						
LARCREST COLORADO-ET	USA 53766322					C	
LARCREST COLORFUL-ET	USA 57187828						
LARCREST COLUMBA-ET	USA 75746444						
LARCREST COMBO-ET	USA 73680004						
LARCREST COMCAST-ET	USA 73679997						
LARCREST COMEDY-ET	USA 58591966						
LARCREST COMFORT-ET	USA 73680003						
LARCREST COMICAL-ET	USA 70119350						
LARCREST COMPEL-ET	USA 73329804						
LARCREST COMPLEMENT-ET	USA 73329805						
LARCREST COMPOSITE-ET	USA 73329806						
LARCREST COMPOTE-ET	USA 73329790						3
LARCREST COMPRESS-ET	USA 73329792						
LARCREST COMPRISE-ET	USA 73329793						3
LARCREST CONCENTRIC-ET	USA 73329794						
LARCREST CONCERT-ET	USA 58591905						
LARCREST CONCERTO-ET	USA 73329791						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CONCHITA-ET	USA 73241497						
LARCREST CONCISE-ET	USA 73329795						
LARCREST CONCOCT-ET	USA 73329784						
LARCREST CONCORD-ET	USA 58591912						
LARCREST CONCORDIA-ET	USA 73241496						
LARCREST CONCUR-ET	USA 58597604						
LARCREST CONDOR-ET	USA 73329782						
LARCREST CONEY-ET	USA 73329798						
LARCREST CONFECTION-ET	USA 73329796						
LARCREST CONFIT-ET	USA 73329799						
LARCREST CONGENIAL-ET	USA 73329800						
LARCREST CONJURE-ET	USA 73329801						
LARCREST CONNATE-ET	USA 73329802						
LARCREST CONSERVE	USA 78170440						
LARCREST CONSTANCE-ET	USA 53454870						
LARCREST CONSTELLATION	USA 57187893						3
LARCREST CONTEMPORARY-ET	USA 142074028						
LARCREST CONTENT-ET	USA 57187043						
LARCREST CONVINCER CHANTE	USA 51442668						
LARCREST COOL-ETS	USA 56265383						
LARCREST COP OUT-ET	USA 78170439						
LARCREST CORA-ET	USA 143218076						
LARCREST CORABELLE-ET	USA 57187386						
LARCREST CORALBELLE-ET	USA 58597601						
LARCREST CORALINE-ET	USA 143220628						
LARCREST CORDIAL-ET	USA 57187044						
LARCREST CORDON BLEU-ET	USA 72865204						
LARCREST CORDOVA-ET	USA 73765337						
LARCREST CORDUROY	USA 58591935						
LARCREST CORIA-ET	USA 73743472						
LARCREST CORINNA-ET	USA 73743470						
LARCREST CORNDOG-ET	USA 73709022						
LARCREST CORNERPOST-ET	USA 75746443						
LARCREST CORNET-ET	USA 73743477						
LARCREST CORNFLAKE-ET	USA 73709023						
LARCREST CORNING-ET	USA 73743471						1
LARCREST CORNMEAL-ET	USA 73680025						
LARCREST CORNMUFFIN-ET	USA 73241502						
LARCREST COROLLA	USA 57187873						1
LARCREST CORONA-ET	USA 58591913						
LARCREST CORONATION-ET	USA 73870383						
LARCREST CORSAGE-ET	USA 57187375						
LARCREST CORSET-ET	USA 58591914						
LARCREST CORTINA-ET	USA 73743480						
LARCREST CORVETTE-ET	USA 57187390						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CORVINA-ET	USA 53766352						
LARCREST CORYDON-ET	USA 73709024						
LARCREST COSCO-ET	USA 57187868						
LARCREST COSTA RICA-ET	USA 57187832						
LARCREST COSTUME-ET	USA 57187809						
LARCREST COTILLON-ET	USA 58597603						
LARCREST COTTAGE-ET	USA 58591990						
LARCREST COTTON-ET	USA 58591944						
LARCREST COUNTESS-ET	USA 53452471						
LARCREST COUNTRY-ET	USA 73241505					3	
LARCREST COURTEOUS-ET	USA 142074046						
LARCREST COURTESY-ET	USA 58591902						
LARCREST COUSCOUS-ET	USA 58591954						
LARCREST COVE	USA 57187381						
LARCREST COVEN-ET	USA 58592000						
LARCREST COVET-ET	USA 57187802						
LARCREST COY-ET	USA 57187333					3	
LARCREST COZY-ET	USA 58591995						
LARCREST CRACKERBARREL-ET	USA 75746440						
LARCREST CRACKERJACK-ET	USA 58591979						
LARCREST CRANDALL-ET	USA 78170430						
LARCREST CRASH-ET	USA 58591947						
LARCREST CRAVE-ET	USA 57187814						
LARCREST CRAYON-ET	USA 58591916						
LARCREST CREAM CHEESE-ET	USA 73241499						
LARCREST CREAM PUFF-ET	USA 72865203						
LARCREST CREDENCE-ET	USA 57187015						
LARCREST CREDENZA-ET	USA 56265397						
LARCREST CREDIT-ET	USA 56265392						
LARCREST CREE-ET	USA 57187348						
LARCREST CREEK-ET	USA 58591920						
LARCREST CREMA-ET	USA 73765340						
LARCREST CREPE-ET	USA 56264505						
LARCREST CRESSY-ET	USA 73765334						
LARCREST CREST-ET	USA 58591915						
LARCREST CRIMSON-ET	USA 53452457						
LARCREST CRINGLE-ET	USA 58591908						
LARCREST CRINOLINE	USA 58591934						
LARCREST CRISP-ET	USA 78008559						
LARCREST CRISSCROSS-ET	USA 58591994						
LARCREST CROATIA-ET	USA 56265365						
LARCREST CROCHET-ET	USA 57187392						
LARCREST CROISSANT-ET	USA 57187346						
LARCREST CROQUETTE-ET	USA 72772737						
LARCREST CROSSFIRE-ET	USA 75746439						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST CROSTINI-ET	USA 57187877						
LARCREST CROW-ET	USA 57187362						
LARCREST CUBE-ET	USA 78170438						
LARCREST CUCUMBER-ET	USA 72865201						
LARCREST CUDDLES-ET	USA 58591910						
LARCREST CUE-ET	USA 78008555					C	
LARCREST CULTURE-ET	USA 57187808						
LARCREST CUMIN-ETS	USA 57187049						
LARCREST CUMQUAT-ET	USA 57187391						
LARCREST CUPCAKE-ET	USA 58591965						
LARCREST CUPID-ET	USA 57187388						
LARCREST CUREL-ET	USA 78008556						
LARCREST CURIO-ET	USA 53766400						
LARCREST CURIUM-ET	USA 74598069						
LARCREST CURRENT-ET	USA 139972456						
LARCREST CURTSY-ET	USA 58591911						
LARCREST CUSTARD-ET	USA 72772742						
LARCREST CUTIE-ET	USA 58591998						
LARCREST CYMBALTA-ET	USA 57187846						
LARCREST CYMBOL-ET	USA 57187389						
LARCREST CYNTHIA-ET	USA 143218094						
LARCREST CYSTINE-ET	USA 58591993						
LARCREST DEFENDER CAMMY-ET	840003125202086						
LARCREST DURHAM KELLY	USA 51449540			C			
LARCREST EXP STAR 3129-ET	840003131666994						
LARCREST FALCON-ET	USA 73241495						
LARCREST FALLON-ET	USA 73221535						
LARCREST FANCY-ET	USA 73241493						
LARCREST FARRAH-ET	USA 73221540						
LARCREST FATIMA-ET	USA 78170429						
LARCREST FAWN-ET	USA 75746435						
LARCREST FELICITY-ET	USA 78170432						
LARCREST FERN-ET	USA 78170433						
LARCREST FIFI-ET	USA 75746438						
LARCREST FLAME-RED	USA 57187325						
LARCREST GEVALIA	USA 57187848					C	
LARCREST GRASSHOPPER-TW	USA 57187857						
LARCREST HARPESTAD CASCEE	USA 72451937						
LARCREST HARPESTAD CATELYN	USA 72451939						
LARCREST HARPESTAD CKETTLE	USA 70420648						
LARCREST HARPESTAD COWABUN	USA 70420621						
LARCREST HARPSTAD COTTON-TW	USA 70420617						
LARCREST IRELAND	USA 57187886						
LARCREST JOSUPER 3530-ET	USA 143269700						
LARCREST KB CHRISTINE-ET	USA 143218058						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST KH CAREFREE-ET	USA 53454885						
LARCREST LAYLA	USA 57187385						
LARCREST LEOPARD	USA 57187867						
LARCREST MONTEREY 2530-ET	USA 143269559						
LARCREST MONTEREY 3566-ET	USA 143399401						
LARCREST MONTEREY 3588-ET	USA 75515914						
LARCREST MONTEREY 3591-ET	USA 75515922						
LARCREST MONTEREY 3595-ET	USA 75515924						
LARCREST MS CALM-ET	USA 74591446						
LARCREST MS CAMELLIA-ET	USA 57187891						
LARCREST MS CARTEL-ET	USA 74591443						
LARCREST MS CHANDA-ET	USA 57187380						
LARCREST MS CHICKADEE-ET	USA 75746436						
LARCREST MS CHIFFON-ET	USA 57187361						
LARCREST MS CIRCE-ET	USA 73967996						
LARCREST MS COBALT-ET	USA 74591440						
LARCREST MS COLLETTE-ET	USA 143220619						
LARCREST OCT FEST 3130-ET	840003131666995						
LARCREST OCT FEST 3131-ET	840003131666996						
LARCREST OCT FEST 3132-ET	840003131666997						
LARCREST OCT FEST 3133-ET	840003131666998						
LARCREST OCT FEST 3136-ET	840003131667001						
LARCREST OCT FEST 3428-ET	USA 75515916						
LARCREST OCT FEST 3596-ET	USA 75515925						
LARCREST OCT FEST 3598-ET	USA 75515927						
LARCREST OHARE CARRIE-ET	840003124584813						
LARCREST PAPAYA	USA 57187337						
LARCREST PERFECTA	USA 57187331						
LARCREST POWERBALL 3101-ET	USA 143354976						
LARCREST POWERBALL 3105-ET	USA 143355454						
LARCREST POWERBALL 3541-ET	USA 143354958						
LARCREST RR CALE	DEU 358633535						
LARCREST SATURN	USA 58591978						
LARCREST SHAMRCK COSMOS-ET	840003010631819						
LARCREST SHOTTL CHAMPGNE-ET	USA 140016125						
LARCREST SHOTTLE CAMERON-ET	USA 140016116						
LARCREST SILVER 2534-ET	USA 143269586						
LARCREST SILVER 3106-ET	USA 143355481						
LARCREST SILVER 3121-ET	840003131666986						
LARCREST SILVER 3554-ET	USA 143355463						
LARCREST SILVER 3561-ET	USA 143355548						
LARCREST SILVER 3562-ET	USA 143355557						
LARCREST SILVER 3582-ET	USA 75515908						
LARCREST SUPERSHOT 3521-ET	USA 143269625						
LARCREST SUPERSHOT 3526-ET	USA 143269652						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARCREST YODER 2545-ET	USA 143354903						
LARCREST YODER 3117-ET	840003131666982						
LARCREST YODER 3574-ET	USA 75515900						
LARCREST YODER 3577-ET	USA 75515903						
LARCREST ZETA	USA 73329788						
LARCREST ZSA ZSA	USA 57187801						
LARCREST-I MOGUL TIGNANELA-ET	CAN 108249052						
LARCREST-I SUPRSIRE CALYPSO-ET	CAN 108133425						
LARELEVE THUNDER DOLCEVITA-ET	CAN 101418621						
LAREST DAMION CHESSA	CAN 7804751						
LARKINDALE ARMITAGE RENO	USA 142151534						
LARKINDALE BWM RHODA-ET	USA 136093675						
LARKINDALE CLARK VOTTO	USA 141966928						
LARKINDALE EPIC GENIOUS	USA 72296287						3
LARKINDALE PAUL GRETA	USA 141966919						1
LARKINDALE SHOTTLE REECE	USA 141993104						
LARKINDALE SUPER ARTIC	USA 142060465						
LARKINDALE SUPER MAGIC	USA 142060438						
LARKINDALE-R APPEASE-ET	USA 140930852						
LARKINDALE-R SHTLE ANNIE-ET	USA 140171877						
LARS-ACRES ABRAM CAMERON	USA 72673719						3
LARS-ACRES ABRAM HONOLULU	840003124003751						
LARS-ACRES ABRAM NAYDINE	USA 72673551						
LARS-ACRES ABRAM OBSTACLE	USA 71877846					C	
LARS-ACRES ABRAM OLLY-TW	USA 72673580						
LARS-ACRES ABRAM OLYMPUS-TW	USA 72673579						
LARS-ACRES ABRAM SMOTHERED	USA 71877936						
LARS-ACRES ABRAM TILDA	840003124003678						
LARS-ACRES ABRAM TWINKEE	840003124003106						
LARS-ACRES ACHIEVE GRACIOUS	USA 70793892						
LARS-ACRES AFTER FLIPFLOP	USA 69603392						
LARS-ACRES AFTER TROUBLED	840003124003912					C	
LARS-ACRES AFTERSHOCK TAFFY	840003128505872					C	
LARS-ACRES AFTRSHCK FLYBALL	840003124003380					C	
LARS-ACRES AFTRSHCK TERRIFY	840003124003402						
LARS-ACRES AFTRSHK HONEYBEE	840003124003435						
LARS-ACRES ALEX OVER HAUL	USA 70793477						1
LARS-ACRES ALEXANDER SHAGGY	USA 69604157						1
LARS-ACRES ALFALF FORTNIGHT	840003128506204						
LARS-ACRES ALFALFA BEAN	840003128506082						
LARS-ACRES ALFALFA INDIANA	840003128506296						
LARS-ACRES ALFALFA JUSTASK	840003128505938						
LARS-ACRES ALFALFA MACY	840003128506153	C					
LARS-ACRES ALFALFA SHAKER	840003133735804						
LARS-ACRES ALFALFA SMELLY	840003128506214						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES ALFALFA SOAL	840003128505748						
LARS-ACRES ALFALFA TAUNTER	840003133735792						
LARS-ACRES ALFALFA TREE	840003128506083						
LARS-ACRES ALI MAPLE	USA 69271791						
LARS-ACRES ALLSTAR 13690	USA 70793644						
LARS-ACRES ALRIGHT THUNDER	840003124003388						
LARS-ACRES ALRIGHT TRIVIA	840003124003240						
LARS-ACRES ARD PULLOVER-TW	840003124003857						
LARS-ACRES ARDIE JACKFROST	840003124003911						
LARS-ACRES ARDIE MARGO	840003124003668			C			
LARS-ACRES ARDIE PARKA-TW	840003124003856						
LARS-ACRES ARDIE TARDY	840003124003860		C				
LARS-ACRES ARGON JOPIN	USA 71877182						
LARS-ACRES ARGON SMOKIN HOT	USA 71877349						
LARS-ACRES ARGON TIERNI-ET	USA 70793558						
LARS-ACRES ARGON TILLI-ET	USA 70793602						
LARS-ACRES ARGON TOLBI-ET	USA 70793590						
LARS-ACRES ARGON TONI-ET	USA 70793561						
LARS-ACRES ARM FREELANCE	USA 71877120						
LARS-ACRES ARM SQUASH-TW	USA 71877233						
LARS-ACRES ARM STUFFING-TW	USA 71877232						
LARS-ACRES ARM TINGLE-ET	USA 70793370						
LARS-ACRES ARM TINGLING-ET	USA 70793374					C	
LARS-ACRES ARM TITLETOWN	USA 71877203						3
LARS-ACRES ARM TRINITY-ET	USA 70793433					C	
LARS-ACRES ARMITAGE FREETOS	USA 71877100						3
LARS-ACRES ARMITAGE GEORGIE	USA 70793925						
LARS-ACRES ARMITAGE MCKAYLA	USA 70793710						
LARS-ACRES ARMITAGE MIDDAY	USA 71877159						
LARS-ACRES ARMITAGE TRIBAL	USA 70793361						
LARS-ACRES ARMSTEAD HAITI	USA 68597883						
LARS-ACRES BAKOMBR TROPICAL	840003124003070						
LARS-ACRES BAKOMBRE 15852	USA 72673775						
LARS-ACRES BAKOMBRE GLAMOR	840003124003129			C			
LARS-ACRES BAL TWIST TIE-ET	840003124003540					C	
LARS-ACRES BALISTO TWIST-ET	840003124003536						
LARS-ACRES BALT TRESSPASS	840003128506263					C	
LARS-ACRES BALTIMORE GALIXY	840003128506260						
LARS-ACRES BALTIMORE TUNDRA	840003124003117						
LARS-ACRES BARTON JUSTSAYIN	USA 71877439						
LARS-ACRES BARTON MARBLES	USA 70793889						
LARS-ACRES BARTON NOW	USA 71877433						
LARS-ACRES BEACON EDIT	USA 72673036					C	
LARS-ACRES BEACON ELENOR	USA 72673131					C	
LARS-ACRES BEACON GALAXY	USA 72673179					C	1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

68

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES BEACON IHOP	USA 70793145						
LARS-ACRES BEACON KNOCKOUT	USA 72673161					C	
LARS-ACRES BEACON KORBIN	USA 70793385						
LARS-ACRES BEACON SUPRISE	USA 71877862						
LARS-ACRES BEAU BOOKMARK	USA 70793662						
LARS-ACRES BEAU FLUORESCENT	USA 71877234						
LARS-ACRES BEAU NEVER	USA 71877459						
LARS-ACRES BEAU OVATION	USA 71877516						
LARS-ACRES BEAU SANDALS	USA 70793604						
LARS-ACRES BEAU TWEEK	USA 70793414						
LARS-ACRES BEL TOGETHER-ET	840003128506455						
LARS-ACRES BELAIR GIRL	840003128506068						
LARS-ACRES BELAIR JEWEL	840003128506081						
LARS-ACRES BELAIR MIRACLE	840003128505967						
LARS-ACRES BELAIR PLAYBALL	840003128505957						
LARS-ACRES BELAIR TAYLRE	840003128506093						
LARS-ACRES BELAIR TIGHT-ET	840003128506444					C	
LARS-ACRES BELUGA BRIT	840003128505842						
LARS-ACRES BELUGA KAY	840003128506113			C			
LARS-ACRES BELUGA MAGENTA	840003128506280			C			
LARS-ACRES BETTMAN FACE UP	840003133735811		C				
LARS-ACRES BETTMAN GLIMMER	840003128505780			C			
LARS-ACRES BETTMAN IVORY-TW	840003128506311						
LARS-ACRES BETTMAN IVY-TW	840003128506312						
LARS-ACRES BETTMAN TONY	840003128505877						
LARS-ACRES BLOOMBERG KANDY	840003128505924			C			
LARS-ACRES BOGART SAVOR	USA 72673347			C			
LARS-ACRES BOGART VARIETY	USA 72673339			C	C		
LARS-ACRES BOJANG KANONI	USA 66400641						
LARS-ACRES BOOKEM GLORIOUS	840003124003366						
LARS-ACRES BOOKEM GOOD TIME	840003128505684						
LARS-ACRES BOOKEM ILLY	840003128505852						
LARS-ACRES BOOKEM KRINGLE	USA 70793094						
LARS-ACRES BOOKEM NO WAY	840003128506290						
LARS-ACRES BOOKEM SAFFRON	840003124003756						
LARS-ACRES BOOKEM TRILIUM	USA 70793102						
LARS-ACRES BOXER FLURRY	USA 69604013						
LARS-ACRES BOYO VENEZUELA	USA 70793697						
LARS-ACRES BOYOBOY AMERICAN	USA 70793831						
LARS-ACRES BOYOBOY TRIXA	USA 71876992						
LARS-ACRES BRADNICK TRENZIE	USA 71877533		C				
LARS-ACRES BREW EGGROLL	840003124003589						
LARS-ACRES BREW MOVE ON	840003128506134						
LARS-ACRES BREWMAS PEPPER	USA 72673215						
LARS-ACRES BREWMAST BRIDGIE	USA 72673766						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES BREWMAST JUGGLE	840003124003021						
LARS-ACRES BREWMASTER ETHEL	USA 72673140						
LARS-ACRES BREWMASTER MIZZ	840003124003137						
LARS-ACRES BREWMASTER VISER	840003124003499				C		
LARS-ACRES BREWMASTR ONWARD	840003124003326						
LARS-ACRES BRIAR TRICKLE	USA 71877344				C		
LARS-ACRES BRODIE TAKEEM	840003128505913						
LARS-ACRES BRODIE TIMEDIN	840003128505917						
LARS-ACRES BRODIE TWILLA-ET	840003128505833						
LARS-ACRES BUCKEYE JUGGLE	USA 66904451						
LARS-ACRES CAIN KATY	840003124003797						
LARS-ACRES CAIN KENDELL	840003124003974						
LARS-ACRES CAIN KENDRIC-TW	840003124003664						
LARS-ACRES CAIN TALLADEGA	840003124003723						
LARS-ACRES CAMERON ADIDAS	USA 70793821						
LARS-ACRES CAMERON GENUINE	USA 70793861						
LARS-ACRES CAMERON TEA	USA 70793853						3
LARS-ACRES CANCUN JULIA-TW	840003124003183						
LARS-ACRES CANCUN JULIE-TW	840003124003182						
LARS-ACRES CANCUN PASSION	840003124003936						
LARS-ACRES CANCUN PETRI	840003124003764						
LARS-ACRES CANCUN SNEAKY	840003124003900			C			
LARS-ACRES CANNON ENVY	USA 72673702						
LARS-ACRES CANNON FREEFLIP	USA 72673304						
LARS-ACRES CANNON GLASS	USA 72673302						
LARS-ACRES CANNON NUTTY	USA 72673474						
LARS-ACRES CARSONR AMPED-UP	840003124003260						
LARS-ACRES CAS BREATH TAKING	USA 72673743						
LARS-ACRES CASUAL JAMS	USA 72673747						
LARS-ACRES CASUAL JLO	840003124003868						
LARS-ACRES CASUAL PARTEE	840003124003239						
LARS-ACRES CASUAL SWEATTART	USA 72673473						
LARS-ACRES CASUAL TIKI	840003124003767					C	
LARS-ACRES CASUAL TMI	840003124003762						
LARS-ACRES CHACAL MOROCCO	840003128505603					C	1
LARS-ACRES CHACAL THUMP	840003133735848						3
LARS-ACRES CHACAL TURN UP	840003133735854					C	
LARS-ACRES CHAMPLAIN JACKIE	USA 72673475						
LARS-ACRES CHAMPLAIN SANDY	USA 72673369						
LARS-ACRES CHAMPLAIN TRAP	USA 72673541						
LARS-ACRES CHAR JUST-A-KISS	USA 70793275						
LARS-ACRES CHAR PUDDIN POP	USA 70793497						
LARS-ACRES CHARLIE MALIBU	USA 70793471						
LARS-ACRES CHARLIE MISCHIEF	840003124003231						
LARS-ACRES CHARLIE TAYLOR	USA 70793350						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES CHEL LAVENDER-ET	840003124003984						
LARS-ACRES CHELIOS LILLY-ET	840003124003987						
LARS-ACRES CHELIOS LYNDA-ET	840003124003713						
LARS-ACRES CHOPS MICKEY	840003128506115						
LARS-ACRES CHOPS TAYLOR-ET	840003128505665						
LARS-ACRES CHOPS TOY-ET	840003128505692						
LARS-ACRES CHOPS TOYSTOR-ET	840003128505663						
LARS-ACRES CIVAL NORA-ET	840003124003851						
LARS-ACRES CIVAL NORMA-ET	840003124003914						
LARS-ACRES CLASS SUNSHINE	840003124003503						
LARS-ACRES CLASSC TO MODERN	840003128506495	C					
LARS-ACRES CLASSIC BARBIE	840003124003521						
LARS-ACRES CLASSIC FOULBALL	840003128505936						
LARS-ACRES CLASSIC GETOUT	840003128505925						
LARS-ACRES CLASSIC GLAM	840003124003382					C	
LARS-ACRES CLASSIC JASMINE	840003124003245						
LARS-ACRES CLASSIC JETA	840003128506023						
LARS-ACRES CLASSIC MEXICO	840003124003937						
LARS-ACRES CLASSIC MOUSEY	840003124003660						
LARS-ACRES CLASSIC TRUST	840003128506261						3
LARS-ACRES CLASSIC VIVIAN	840003124003969						
LARS-ACRES CM KRUMBLEY	USA 70793106						
LARS-ACRES CM MARY JANE	USA 70793191			C			
LARS-ACRES CM MISTY MAY	USA 70793767						
LARS-ACRES COACH IDOL	USA 70793808						
LARS-ACRES COACH MAKENSY	USA 70793933						
LARS-ACRES COLBY MUSHROOM	USA 71877362						
LARS-ACRES COLBY OLA	USA 70793196		C				
LARS-ACRES COLD EVELIN-TW	USA 70793490						
LARS-ACRES COLD KELLOGG	USA 70793213						
LARS-ACRES COLDSPR TOPPLE	USA 70793464						
LARS-ACRES CONNER GAME DAY	USA 70793114						
LARS-ACRES CONNER PARTTIME	USA 71877104						
LARS-ACRES CROWN BRAVERY	USA 70793718			C			
LARS-ACRES CROWN GARDEN	USA 70793116						
LARS-ACRES CROWN GOLDIE	USA 70793153			C			1
LARS-ACRES CROWN JENGA	USA 70793752						
LARS-ACRES CROWN KRISPY	USA 71877075			C			
LARS-ACRES CROWN SACREMENTO	USA 70793401						3
LARS-ACRES CROWN SHARLEEN	USA 70793130			C			
LARS-ACRES CROWN TARGET	USA 70793552						
LARS-ACRES CROWN TAUNIE	USA 70793501		C	C			
LARS-ACRES CROWN TIARA	USA 70793230			C			
LARS-ACRES CROWN TICKER	USA 71877039						1
LARS-ACRES CYPR GLEAMING-TW	USA 70793475						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

71

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES DAMAR TAMARIS-ET	840003124003843						
LARS-ACRES DAMARIS TAFFY-ET	840003124003835					C	
LARS-ACRES DAMARIS TEE-ET	840003124003816						
LARS-ACRES DAMARIS TRUST-ET	840003128506096					C	
LARS-ACRES DAMRS TIFFANY-ET	840003128505869						
LARS-ACRES DAVID TWIGS	840003124003638			C			3
LARS-ACRES DD TIGHT ROPE-ET	840003124003412						
LARS-ACRES DEAN TERRACE	USA 72673781						
LARS-ACRES DEDUCTIV ELEMENT	840003128505861						
LARS-ACRES DEDUCTIVE GATSBY	840003128505955						
LARS-ACRES DEDUCTIVE TIE-ET	840003124003580					C	
LARS-ACRES DEF OFFBALANCE	840003128505744						
LARS-ACRES DEFEND MOONLIGHT	840003128506421						
LARS-ACRES DEFENDER APRICOT	840003128505874						
LARS-ACRES DEFENDER FROZEN	840003128505763						
LARS-ACRES DEFENDER GRAVITY	840003128505996						
LARS-ACRES DEFENDER GROOVY	840003133735831						
LARS-ACRES DEFENDER TWIST	840003128505782						
LARS-ACRES DEFIANT MISSY	840003128505953						
LARS-ACRES DEMPSEY FUNNIGHT	840003128505612						1
LARS-ACRES DEMPSEY TEMPER	840003124003457						3
LARS-ACRES DEMPSEY TERIYAKI	840003124003771						1
LARS-ACRES DEXTER KANSAS	840003128506502						
LARS-ACRES DEXTER MONOGRAM	840003128506391						
LARS-ACRES DEXTERMAN MAKE	840003128506258						
LARS-ACRES DIAMOND EUGENIA	840003124003573			C			
LARS-ACRES DIAMOND ICY HOT	840003124003533					C	
LARS-ACRES DIAMOND KISS	840003124003440			C		C	
LARS-ACRES DIAMOND MILEEN	840003124003010					C	
LARS-ACRES DIG TAKE DOWN-ET	USA 71877887						
LARS-ACRES DIST NICKNAME-ET	840003128506368						
LARS-ACRES DISTILL NANCY-ET	840003124003919						
LARS-ACRES DISTINCT TANLI	840003128506461		C				
LARS-ACRES DISTINCT TASSEL	840003128506405						
LARS-ACRES DOB MARSHMELLOW	USA 71877374						
LARS-ACRES DOBER TEARDROP	USA 72673614						
LARS-ACRES DOBERMAN FORTEE	USA 71877422		C				
LARS-ACRES DOBERMAN HAMPTON	USA 70793430						
LARS-ACRES DOBERMAN JUMPER	USA 70793376						
LARS-ACRES DOBERMAN NADIA	USA 72673737						
LARS-ACRES DOBERMAN ORBITZ	USA 72673570						
LARS-ACRES DOBERMAN PEAS-TW	USA 71877140						
LARS-ACRES DOBERMAN POD-TW	USA 71877141						
LARS-ACRES DOMAIN TANYA	USA 70793351						
LARS-ACRES DONATELL TWINKIE	840003128505773						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES DONATELLO BUBBA	USA 72673438						
LARS-ACRES DONATELLO CHELLO	840003133735834						
LARS-ACRES DONATELLO JOBBY	USA 72673900						
LARS-ACRES DONATELLO KIANNE	USA 72673854			C			
LARS-ACRES DONATELLO NOON	840003128505816						
LARS-ACRES DONATELLO OILER	840003128505725						
LARS-ACRES DONATELLO POTATO	840003128505887						
LARS-ACRES DONATELLO TINGLE	840003128506285						
LARS-ACRES DONATELO MEMPHIS	840003128506331						
LARS-ACRES DONATELO TATIANA	840003128505651						
LARS-ACRES DONTLL FIREHOUSE	840003128506042		C				
LARS-ACRES DONTLL FLASHBACK	840003128506000						
LARS-ACRES DONTLLO TIMEDOUT	840003128506058						
LARS-ACRES DOOR LONDON-ET	840003124003727					C	
LARS-ACRES DOORMAN CHARLIE	840003128505629						
LARS-ACRES DOORMAN TIPPY	840003128506241					C	
LARS-ACRES DORCY JENNIFER	USA 72673654						
LARS-ACRES DORCY MARVELOUS	USA 72673569						
LARS-ACRES DOVER HOODIE	840003124003833						
LARS-ACRES DOVER KANGAROO	840003124003282						
LARS-ACRES DOVER MONTEE	840003124003731						
LARS-ACRES DOVER MYSTERIOUS	840003124003617						
LARS-ACRES DOVER TITLE	840003124003630						
LARS-ACRES DOVER TRUMP	840003124003674						
LARS-ACRES DOVER TWEEDY	840003124003538						
LARS-ACRES DREAM KEY CHAIN	USA 71877412						
LARS-ACRES DREAM MARVELOUS	USA 71877253						
LARS-ACRES DREAMER BLAZER	USA 71877841						
LARS-ACRES DREAMER IDO	USA 71877334						
LARS-ACRES DREAMER JOSLOU	USA 71877488						
LARS-ACRES DREAMER MYANN	USA 71877773						
LARS-ACRES DREAMER PARTY	USA 71877164						3
LARS-ACRES DREAMER SUNDANCE	USA 71877817						
LARS-ACRES DREAMER TROT	USA 71877498						
LARS-ACRES DSTNCTN TIMEHOP	840003128505994						
LARS-ACRES DUDE FALCON-ET	840003128505900					C	
LARS-ACRES DUDE TAKEIT-ET	840003128505907					C	
LARS-ACRES DUDE TAKEN-ET	840003128505905			C			
LARS-ACRES DUDE TOMORROW-ET	840003128505931			C			
LARS-ACRES ECOY TIMELESS-ET	USA 70793907					C	
LARS-ACRES EMER TRUSTWORTHY	USA 70793816						3
LARS-ACRES EMER VENEZUELA	USA 71877235				C		
LARS-ACRES EMERALD BANG-TW	USA 70793940		C				
LARS-ACRES EMERALD BING-TW	USA 70793939						
LARS-ACRES EMERALD FALON-ET	840003128506548						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES EMERALD GABBY	USA 70793727	C					
LARS-ACRES EMERALD TINESHA	USA 70793920	C					
LARS-ACRES EMERALD TYRA	USA 71876965	C					
LARS-ACRES ENDURO 12136	USA 70054061						
LARS-ACRES ENRY TRUMPET	USA 70793302		C				
LARS-ACRES ENTRUST TASTY	840003128505729						
LARS-ACRES ENVI MADAGASCAR	840003128506205						
LARS-ACRES ENVIOUS MARLA	840003128506190						
LARS-ACRES ENVIOUS MISTY	840003128506090						
LARS-ACRES ENVIOUS MORE	840003128505934			C			
LARS-ACRES ENVIOUS TAMI	840003128506080						
LARS-ACRES EPIC TANGLE-ET	USA 72672996					C	
LARS-ACRES EPIC TINGLE-ET	USA 72673002						
LARS-ACRES EPIC TOGGLE-ET	USA 72673026					C	
LARS-ACRES EPISODE FLOPPER	840003128506159						
LARS-ACRES EPISODE PINCHER	840003128506169						
LARS-ACRES EPISODE TINSEL	840003124003970						
LARS-ACRES EVEREST FAIRMONT	840003124003261						
LARS-ACRES EVEREST JULIUS	840003124003579						
LARS-ACRES EVEREST SAM	840003124003318						
LARS-ACRES EXP FIREWORKS-ET	USA 72673235		C				
LARS-ACRES EXPLODE EGGROLL	USA 71877121						
LARS-ACRES EXPLODE GOODNESS	USA 71876993						1
LARS-ACRES EXPLODE ODYSSEY	USA 72673167						
LARS-ACRES EXPLODE PIECES	USA 71877155						
LARS-ACRES EXPLODE TOWER	USA 72673533						
LARS-ACRES EXPLODE TULU	USA 70793356						
LARS-ACRES FABIO JAMMIN	USA 71877934	C					
LARS-ACRES FABIO STARRY	USA 71877919						
LARS-ACRES FAV TOP-SHELF-ET	USA 72673528					C	
LARS-ACRES FAV TOUCHBACK-ET	840003124003176						
LARS-ACRES FEL FACELIFT-ET	USA 70793320		C				
LARS-ACRES FEL FAIRYTALE-ET	USA 66904267						
LARS-ACRES FEL FESTIVAL-ET	USA 69603913		C				
LARS-ACRES FEL FESTIVITY-ET	USA 66400674						
LARS-ACRES FEL FIREBOMB-ET	USA 72673261						
LARS-ACRES FEL FIREWORKS-ET	USA 70793787						
LARS-ACRES FELC FANCIFUL-ET	USA 64446063		C				
LARS-ACRES FELC FANTASIA-ET	USA 68597715		C				
LARS-ACRES FELC FESTIVE-ET	USA 66400656						
LARS-ACRES FELC FOREMOST-ET	USA 63092818						
LARS-ACRES FELIC FARLEY-ET	USA 71876971		C				
LARS-ACRES FELIC FASHION-ET	USA 68597612		C				
LARS-ACRES FELIC FIDELIA-ET	USA 68597721						
LARS-ACRES FELIC FONDANT-ET	840003124003500						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES FELIC FOREVER-ET	USA 70793223		C				
LARS-ACRES FELIC FORGIVE-ET	USA 65504015						
LARS-ACRES FELIC FORTUNE-ET	USA 65503988		C				
LARS-ACRES FELIC FORWARD-ET	USA 63092809		C				
LARS-ACRES FELIC FREEDOM-ET	USA 69603547						
LARS-ACRES FELIC FRENCHY-ET	USA 71877300						
LARS-ACRES FELIC FRISBEE-ET	USA 70793918		C				
LARS-ACRES FELICE FALALA-ET	USA 68597725						
LARS-ACRES FELICE FAMOUS-ET	USA 65503997						1
LARS-ACRES FELICE FARLIE-ET	USA 70793915						1
LARS-ACRES FELICE FIESTA-ET	USA 65503832						
LARS-ACRES FELICE FINEST-ET	USA 64446219		C				
LARS-ACRES FELICE FLAVOR-ET	USA 65503818		C				
LARS-ACRES FELICE FLURRY-ET	USA 69604152		C				
LARS-ACRES FELICE FONDUE-ET	840003124003466		C				
LARS-ACRES FELICE FORGET-ET	USA 65504016		C			C	
LARS-ACRES FELICE FREEZE-ET	USA 69603577						
LARS-ACRES FELICE FRENZY-ET	USA 65503706						
LARS-ACRES FELICES FAME-ET	USA 65503984						
LARS-ACRES FELICES FELIX-ET	USA 70793607						
LARS-ACRES FELICES FIRST-ET	USA 63092813						
LARS-ACRES FELICES FLING-ET	USA 65504013						
LARS-ACRES FELICES FLYER-ET	USA 72673817		C				
LARS-ACRES FELICES FOOLS-ET	USA 70793331						
LARS-ACRES FELICES FROST-ET	USA 69603670		C				
LARS-ACRES FEVER FLEECE	840003128505637						
LARS-ACRES FEVER TENLEE	840003124003099						
LARS-ACRES FEVER TICK TOCK	840003124003417						
LARS-ACRES FEVER TYPHOON	840003124003474						
LARS-ACRES FL FESTIVITY-ET	USA 69603933						
LARS-ACRES FONSY FLY AWAY	USA 72672971						
LARS-ACRES FONSY JULIANA	USA 72673414						
LARS-ACRES FONSY MAXINE	USA 72673120						
LARS-ACRES FONSY NOVICE	USA 72673006						
LARS-ACRES FONSY POPPEN	USA 72673157						
LARS-ACRES FONSY TALENT	USA 72672951						
LARS-ACRES FONSY TRIUMPHANT	USA 72672934						
LARS-ACRES FRANK TERRIFY	USA 72673761						
LARS-ACRES FREAKI FRIDAY-ET	840003124003423						
LARS-ACRES FREAKIE FALL-ET	840003124003450						
LARS-ACRES FREAKIE FUN-ET	840003124003432						
LARS-ACRES FRED FIREBALL-ET	USA 69603660						
LARS-ACRES FRED FIREBUG-ET	USA 69603671						
LARS-ACRES FRED FIREPIT-ET	USA 69603672						
LARS-ACRES FRED FREAKIE-ET	USA 69603714						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

75

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES FRENCH TOAST-ET	USA 72672987		C				
LARS-ACRES FURIOUS TOKYO	840003128506488						
LARS-ACRES FURIOUS TRIBUTE	840003124003946						
LARS-ACRES FURIOUS TRUCE	840003128506472					C	
LARS-ACRES FUSION KIRA	USA 70793397						
LARS-ACRES FUSION MIRIAM	USA 70793522						
LARS-ACRES FUSION TANGLED	USA 70793381						
LARS-ACRES G W AT BETHANY	USA 70793419						
LARS-ACRES G W AT BLOW POP	USA 70793545		C				
LARS-ACRES G W AT CAUGHT UP	USA 70793408						1
LARS-ACRES G W AT FANATIC	840003128506572						
LARS-ACRES G W AT FINALFOUR	840003128506570						
LARS-ACRES G W AT FRIZZY	840003124003123						
LARS-ACRES G W AT MATILDA	USA 70793470						
LARS-ACRES G W AT TABLETOP	USA 70793377						
LARS-ACRES G W ATW LILAC-ET	840003128506583						
LARS-ACRES G W ATWOO TRIPLE	USA 70793435					C	
LARS-ACRES G W ATWOOD JEANS	USA 70793371						
LARS-ACRES G W FLOWER POT	USA 70793407		C				
LARS-ACRES GABOR 16941	840003124003930						
LARS-ACRES GABOR PACE	USA 72673549						
LARS-ACRES GABOR SISTER	840003124003945						
LARS-ACRES GABOR TELLMEMORE	840003124003794						
LARS-ACRES GABOR TRISHA	USA 68554308						
LARS-ACRES GAFFNEY EDGIE	USA 72673848						
LARS-ACRES GAFFNEY FLURRA	USA 72673877						
LARS-ACRES GATOR MILESTONE	USA 70793547						
LARS-ACRES GAVIN VIXEN	USA 72673181					C	
LARS-ACRES GD TRIATHALON-ET	840003128505978					C	
LARS-ACRES GERARD TASK-ET	USA 69603827						
LARS-ACRES GIFIAN HERITAGE	840003128506422						
LARS-ACRES GIFIAN TOTAL	840003128506547						
LARS-ACRES GLD TREEHOUSE-ET	840003128505986						
LARS-ACRES GOLD FEATHER	USA 71877154		C				
LARS-ACRES GOLD TIMESQUARE	USA 71877109						
LARS-ACRES GOLD TOUCHE-ET	USA 70793953						
LARS-ACRES GOLD TRADING-ET	USA 70793281						
LARS-ACRES GOLD TRIBUTE-ET	840003128505972						
LARS-ACRES GOLD TRICYCLE-ET	840003128505956					C	
LARS-ACRES GOLD TROMBONE	USA 70793310		C				
LARS-ACRES GOLDCHIP FAIRY	USA 70793261						
LARS-ACRES GOLDCHIP FLIRTIN	USA 70793876						
LARS-ACRES GOLDCHIP TAREN	USA 70793248						
LARS-ACRES GOLDCHIP TEA	USA 71877272						
LARS-ACRES GOLDCHIP TIPSYP	USA 70793856						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES GOLDCHIP TODAY	USA 71877142						
LARS-ACRES GOLDCHIP TOYBOX	USA 71877479						
LARS-ACRES GOLDENBOY EGGNOG	USA 70793099						
LARS-ACRES GRAF GO FOR IT	USA 72672935						1
LARS-ACRES GRAFEETI BEAN	840003133735784						
LARS-ACRES GRAFEETI SPICY	840003133735870						
LARS-ACRES GRAFEETI TINA	840003128505587						3
LARS-ACRES GRAFEETI TODO	840003128505734					C	3
LARS-ACRES GRAFEETI VENUS	840003133735748						
LARS-ACRES GULF BLINK	840003128506281		C				
LARS-ACRES GULF HIPPO	USA 72673600						
LARS-ACRES GULF JOYCE	USA 72673590						
LARS-ACRES GULF KAWALA	840003124003328						
LARS-ACRES GULF KUKU	840003124003508						
LARS-ACRES GULF MITTENS	840003124003850						
LARS-ACRES GULF OCTAGON	840003124003093						
LARS-ACRES GULF STRICKER	840003124003203						
LARS-ACRES GULF TALLER	USA 72673812						
LARS-ACRES GULF TIDES	USA 72673647						
LARS-ACRES GULF TODDY	USA 72673837						
LARS-ACRES GULF TRAINER	840003124003700						
LARS-ACRES GUTHRIE 14828	USA 71877767						
LARS-ACRES GUTHRIE BARBEQUE	USA 71877890						
LARS-ACRES GUTHRIE GAIL	USA 72673410						
LARS-ACRES GUTHRIE GINGER	USA 72673727			C			
LARS-ACRES GUTHRIE JK	USA 71877429						
LARS-ACRES GUTHRIE KASE	USA 71877831						
LARS-ACRES GUTHRIE MARIAN	USA 71877577						
LARS-ACRES GUTHRIE MCKENNA	840003124003014						
LARS-ACRES GUTHRIE TASMINE	USA 71877613						
LARS-ACRES GUTHRIE TAUNTED	USA 72672932						
LARS-ACRES GUTHRIE TOOL KIT	840003124003476						
LARS-ACRES GUTHRIE TRADE IN	USA 71877616						
LARS-ACRES GWAT TRENDING-ET	840003124003478						
LARS-ACRES GWATWD LANDI-ET	840003124003471						
LARS-ACRES HALO FROZEN-ET	840003124003766						
LARS-ACRES HALOGEN ELLIE	840003128506095					C	
LARS-ACRES HALOGEN FLANNEL	840003128505875						
LARS-ACRES HALOGEN GLOVE	840003128506266						
LARS-ACRES HALOGEN MAVERICK	840003128505740						
LARS-ACRES HALOGEN NIGHT	840003128506136						
LARS-ACRES HALOGEN OREO	840003128506271						
LARS-ACRES HALOGEN PASSION	840003128506386						
LARS-ACRES HALOGEN PENELOPE	840003128506222						
LARS-ACRES HALOGEN SCRUFFY	840003128505706						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES HALOGEN TRAVERS	840003128505991						
LARS-ACRES HARTFORD GIZZELL	840003128506429						
LARS-ACRES HARTFORD TAKER	840003124003899						
LARS-ACRES HEAD MARLENA	USA 72673698						
LARS-ACRES HEAD SEVERINA	USA 72673398			C			
LARS-ACRES HEAD TANZANITE	840003128506393						
LARS-ACRES HEAD TICKET-TW	USA 72673675						
LARS-ACRES HEAD TOUR-TW	USA 72673676		C				
LARS-ACRES HEADLIN MAJESTIC	840003124003894						
LARS-ACRES HEADLIN TEXTBOOK	USA 72673639						
LARS-ACRES HEADLINE MAKER	840003128506515						
LARS-ACRES HEADLINE ORIGAMI	840003128506456					C	
LARS-ACRES HEADLINE POEM	USA 72673694						
LARS-ACRES HEADLINER GAP	USA 72673904						
LARS-ACRES HEADLINER GRACE	USA 72673721						
LARS-ACRES HEADLINER GRAIN	USA 72673269						
LARS-ACRES HEADLINER IPOP	USA 72673527						
LARS-ACRES HEADLINER KIND	USA 72673907						
LARS-ACRES HEADLINER ONCE	USA 72673703						
LARS-ACRES HEADLINER SMILEY	USA 72673359						
LARS-ACRES HEADLINR STYLISH	840003124003903			C			
LARS-ACRES HERO THUMP	USA 71877112						
LARS-ACRES HERO TILLIAN	USA 71876956						
LARS-ACRES HERO TO MOST	USA 71877144						
LARS-ACRES HERO TOLLY	USA 71877654						
LARS-ACRES HEZTRY AUBURN	840003128505704						3
LARS-ACRES HIS GOOSEBUMPS	840003124003592						
LARS-ACRES HIST SANDSTONE	840003124003743				C		
LARS-ACRES HISTORY ARTIC	840003124003859						
LARS-ACRES HISTORY JUNIOR	840003124003881			C	C		
LARS-ACRES HISTORY OLLIE	840003124003689				C		
LARS-ACRES HISTORY TRUETAIL	840003124003321		C		C		
LARS-ACRES HISTORY TRUMPET	840003124003772				C		
LARS-ACRES HISTRY TERRITORY	840003124003291						
LARS-ACRES HOMERUN ISIS	USA 69447168						
LARS-ACRES HUNK PAPARAZZI	840003128505683						
LARS-ACRES HUNK TABBY	840003128505643						
LARS-ACRES HUNK TORONTO	840003133735745						
LARS-ACRES HUNK TURN-AROUND	840003133735832						
LARS-ACRES INGEN EXCELLENT	840003128506569						
LARS-ACRES INGENIOUS SMOKY	840003128506530						
LARS-ACRES IOTA OREO	USA 70793126						
LARS-ACRES IOTA PARROT	USA 71877608						
LARS-ACRES IOTA POLLYANN	USA 70793850						
LARS-ACRES IOTA SKI-LIFT	USA 71877222						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES JAB TINKERED-ET	USA 72673563						
LARS-ACRES JABIR CHANTEL	840003124003705						3
LARS-ACRES JABIR FUZZY	840003124003855						
LARS-ACRES JABIR GOLDEN	840003133735775						1
LARS-ACRES JABIR KALLIE	840003128506457						
LARS-ACRES JABIR PHANTUM	840003128506566						
LARS-ACRES JABIR TEAPOT	840003124003127						
LARS-ACRES JABIR TINK-ET	USA 72673573						
LARS-ACRES JABIR TINKED-ET	USA 72673560						
LARS-ACRES JABIR TINKERS-ET	USA 72673566		C				
LARS-ACRES JABIR TINKS-ET	USA 72673558						
LARS-ACRES JABIR TRIDENT-ET	USA 72673477						
LARS-ACRES JACEY FLAW-ET	USA 72673886						
LARS-ACRES JACEY FLEE-ET	USA 72673867						
LARS-ACRES JACEY T C-ET	840003124003233						
LARS-ACRES JACEY TANKTOP-ET	840003124003255						
LARS-ACRES JACEY TUTU-ET	840003124003242						
LARS-ACRES JACKMAN TRINKED	USA 72673811			C			
LARS-ACRES JAM TWINKLE TOE	USA 70793171						
LARS-ACRES JAMMER BISCUIT	USA 70793517						
LARS-ACRES JAMMER GLOWSTICK	USA 71876976						
LARS-ACRES JAMMER JODIE	USA 71877048						
LARS-ACRES JAMMER JUNGLE	USA 70793795						
LARS-ACRES JAMMER KISS	USA 70793283						
LARS-ACRES JAMMER MELTDOWN	USA 71876946						
LARS-ACRES JAMMER OMEGA	USA 71877096						
LARS-ACRES JAMMER OPRAH	USA 70793867						
LARS-ACRES JC TRAMPOLENE-ET	840003124003303						
LARS-ACRES JERR FIRST PLACE	USA 70793837						
LARS-ACRES JERR SIMPLE-TW	USA 71877327			C			
LARS-ACRES JERR SPECIAL-TW	USA 71877328						
LARS-ACRES JERRICK GISELLE	USA 71877567						
LARS-ACRES JERRICK HIANA	USA 72673685						
LARS-ACRES JERRICK KINSEY	USA 72673202			C			
LARS-ACRES JERRICK MISSY	USA 70793798						
LARS-ACRES JERRICK ON TOP	USA 71877024				C		
LARS-ACRES JERRICK VAMPIRE	USA 71877032						
LARS-ACRES JETSET JELLY	840003128506585						
LARS-ACRES JETSET JORDY	840003124003781						1
LARS-ACRES JIVES 13567	USA 70793521						
LARS-ACRES JOSE JOSLIN	USA 69271772						
LARS-ACRES KADO KELLY	840003128506567					C	
LARS-ACRES KINGBOY MARNIE	840003128505638						
LARS-ACRES KINGBOY TOASTY	840003128505728						
LARS-ACRES KINGBY MARTHA-ET	840003124003819						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

79

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES KINGPIN TASTE-ET	840003124003902					C	
LARS-ACRES KINGPIN TEA-ET	840003124003918						
LARS-ACRES KOOL KINDLE	USA 72673008						
LARS-ACRES KOOL SHOWER	USA 72673031						
LARS-ACRES KUHN BEAUTIFUL	840003128506563						
LARS-ACRES KUHN ICEICE BABY	840003128506301			C			
LARS-ACRES LANCOME STARDUST	840003124003802						
LARS-ACRES LANCOME THAW	840003124003829						
LARS-ACRES LANCOME TRIM	840003124003853						
LARS-ACRES LANCOME TULIP	840003124003887						
LARS-ACRES LAY PUDDING PIE	USA 72673733						
LARS-ACRES LAYNE EMAIL	USA 72673246						
LARS-ACRES LAYNE GALLADO	USA 72673384						
LARS-ACRES LAYNE ITHCY	USA 72673230						
LARS-ACRES LAYNE JENGIE	840003124003005						
LARS-ACRES LAYNE JUJU	USA 72673545						
LARS-ACRES LAYNE KRISP	USA 72673328						
LARS-ACRES LAYNE MARLA	USA 72673695						
LARS-ACRES LAYNE MILES	840003124003212						
LARS-ACRES LAYNE POTHOLE	USA 72673262						
LARS-ACRES LAYNE SNIFFLE	840003124003893						
LARS-ACRES LAYNE TANGLED	USA 72673655						
LARS-ACRES LEO FIRST DOWN	USA 72672982						
LARS-ACRES LEO G&G	USA 72673458						
LARS-ACRES LEO GIT-R-DONE	USA 72672924						
LARS-ACRES LEO GLEMNA	USA 72673746						
LARS-ACRES LEO HONEY	USA 70793815						
LARS-ACRES LEO MARVELOUS	USA 72673171						
LARS-ACRES LEO OLYMPIAN	USA 70793763						
LARS-ACRES LEO POKERFACE	USA 71876981						
LARS-ACRES LEO SPARKLE	USA 70793891						
LARS-ACRES LEO TIKI	USA 72673413						
LARS-ACRES LEVI GLAD	USA 71877772			C			
LARS-ACRES LEVI TICKLE	USA 70793943						
LARS-ACRES LEVI TOAST	USA 70793904						
LARS-ACRES LEVI TRINK	USA 70793528			C			
LARS-ACRES LEXOR TIKI-ET	USA 71877692						
LARS-ACRES LINGO JELLO	USA 71877899						
LARS-ACRES LITH FOR RACING	USA 72673714						
LARS-ACRES LITHIUM TORQUE	USA 72673141						
LARS-ACRES LITHIUM TUBBS	USA 72673190						
LARS-ACRES LITTLE TAZIE-ET	840003128506270						
LARS-ACRES LYNDI LAUGH-ET	840003128506338						
LARS-ACRES LYNDI LAURA-ET	840003133735773						
LARS-ACRES LYNDI LAUREN-ET	840003128505621						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES LYNDI LAVISH-ET	840003128506308						
LARS-ACRES LYNDI LEGIT	840003133735852						
LARS-ACRES LYNDI LEXI-ET	840003133735770						
LARS-ACRES LYNDI LIBERTY-ET	840003128505659						
LARS-ACRES LYNDI LIVE-ET	840003128506339						
LARS-ACRES LYNDI LORI-ET	840003128505620						
LARS-ACRES LYNDI LOVE-ET	840003128506318						
LARS-ACRES LYNDI LUCK-ET	840003128506295						
LARS-ACRES LYNDI LUCY-ET	840003128505660						
LARS-ACRES LYNDI LUST-ET	840003128506317						
LARS-ACRES LYNDI LYANNA-ET	840003133735774						
LARS-ACRES LYNDI LYNETTE-ET	840003128505892						
LARS-ACRES LYNDI LYNN-ET	840003128505927						
LARS-ACRES LYNDI LYRA-ET	840003128506017						
LARS-ACRES LYNDI LYSAA-ET	840003133735776						
LARS-ACRES MACK FACTOR	840003124003359						
LARS-ACRES MACK MAY DAY	840003128505688						
LARS-ACRES MACK MOONSTRUCK	840003124003932					C	
LARS-ACRES MACK PICKET	840003124003603						
LARS-ACRES MACK PILGRIM	840003128505676						3
LARS-ACRES MACK SABATAGE	840003124003650						
LARS-ACRES MACK SAMSUNG	840003124003800			C			
LARS-ACRES MACK TOUCHSCREEN	840003124003379						3
LARS-ACRES MACK TUCK-TW	840003128505714						
LARS-ACRES MACK TUCKER-TW	840003128505713		C				
LARS-ACRES MACK VALUE	840003124003941						
LARS-ACRES MAGE	USA 62165161						
LARS-ACRES MAGNUS PEANUT	USA 71876982						
LARS-ACRES MAGNUS TWINE	USA 71877012						
LARS-ACRES MAN-O TALULA-ET	USA 69271775		C				
LARS-ACRES MAN-O-MAN2 JAWS	USA 72673205						
LARS-ACRES MAN2 VELOCITY	USA 71877363						
LARS-ACRES MANIFOLD JAMAICA	USA 70793676						
LARS-ACRES MANIFOLD TRIBUTE	USA 70793184						
LARS-ACRES MANOMAN2 TRILLI	USA 71877743						
LARS-ACRES MARTY TRUMP-ET	840003133735825						
LARS-ACRES MAS TAKE-BACK-ET	USA 71877843					C	
LARS-ACRES MASCAL FRUITY	840003128505834					C	
LARS-ACRES MASHEDPOTATOES	840003128505794						
LARS-ACRES MAURICE SANDPILE	USA 72673908						
LARS-ACRES MAURICE SUCCESS	USA 72673842						
LARS-ACRES MAUSER PATTY	840003128505799						
LARS-ACRES MAUSER PREMIERE	840003128505648						
LARS-ACRES MAX TURNTABLE	USA 71877094						
LARS-ACRES MAY JAMBOREE	840003124003572						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

81

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES MAY OLYMPIAD	840003124003050			C			
LARS-ACRES MAY OVENBAKED	USA 72673248			C			
LARS-ACRES MAY TRUSTFUL	840003124003061						
LARS-ACRES MAYFIELD ALOHA	840003124003028			C			
LARS-ACRES MAYFIELD DANDY	840003124003031			C			
LARS-ACRES MAYFIELD HAZEL	840003124003865			C			
LARS-ACRES MAYFIELD KAT NIP	USA 72673375						1
LARS-ACRES MAYFIELD KOHLS	USA 72673428			C			
LARS-ACRES MAYFIELD KRUNCHY	USA 72673281						
LARS-ACRES MAYFIELD METER	USA 72673466						
LARS-ACRES MAYFIELD MIGRANE	USA 71877867						
LARS-ACRES MAYFIELD SCHOOL	840003124003453			C			
LARS-ACRES MAYFIELD SHINE	USA 72673321						
LARS-ACRES MAYFIELD TERRI	USA 72673656						
LARS-ACRES MAYFIELD TRAP	840003124003967						
LARS-ACRES MAYFIELD TRAPPER	840003124003339			C			
LARS-ACRES MCCUT FOLLIES	USA 72673305						
LARS-ACRES MCCUT GOLDRUSH	USA 72673331			C			1
LARS-ACRES MCCUT MISCHIEF	840003124003157						
LARS-ACRES MCCUT TOASTING	USA 72673332						
LARS-ACRES MCCUT TRAP DOOR	USA 72672959						
LARS-ACRES MCCUTCH FLURRIES	840003124003832						
LARS-ACRES MCCUTCH GRIMACE	840003124003692						
LARS-ACRES MCCUTCH IN TENSE	USA 72673075						
LARS-ACRES MCCUTCH KATNISS	USA 72673366						
LARS-ACRES MCCUTCH PHANTASY	840003124003760						
LARS-ACRES MCCUTCH POPPERS	USA 72673117						
LARS-ACRES MCCUTCHEN MERIT	USA 72672950	C					
LARS-ACRES MCCUTCHEN TAILOR	USA 72673053						
LARS-ACRES MCCUTCHEN TISSUE	USA 72673037						
LARS-ACRES MCCUTCHEN TOMBOY	USA 72673139						
LARS-ACRES MCCUTCHEN TOWER	840003124003124						
LARS-ACRES MEGA SILVERSON	USA 69271957						
LARS-ACRES MELITO 16351	840003124003340						
LARS-ACRES MELITO FIRED	840003124003290						
LARS-ACRES MERCI GOTO	840003124003959			C			
LARS-ACRES MERCI JILLIAN	840003124003978					C	
LARS-ACRES MERCI KURLY-SUE	840003128506310						
LARS-ACRES MERCI PUTTING	840003124003953						
LARS-ACRES MERID TARYN-ET	USA 71877289					C	
LARS-ACRES MERID TATUM-ET	USA 71877297					C	
LARS-ACRES METEOR BACON-TW	USA 71877424						
LARS-ACRES METEOR KACIE	USA 71877591						
LARS-ACRES METEOR MAGGI	USA 71877759						
LARS-ACRES METEOR PUDDING	USA 71877663						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES METEOR SYBIL	USA 71877585						
LARS-ACRES MICH MISSKITTY	USA 69272197						
LARS-ACRES MILES STILLETTO	840003128506385						
LARS-ACRES MILES TO YARDS	840003128506517						
LARS-ACRES MILLION TRILLION	USA 69603480					C	
LARS-ACRES MIXER FRANCIE	USA 71877333						
LARS-ACRES MIXER FRAZZLE	USA 71877310						
LARS-ACRES MIXER FURIOUS	USA 71877216						
LARS-ACRES MIXER GIDEON	USA 71877317						
LARS-ACRES MIXER GRIMLIN	USA 71877350						
LARS-ACRES MIXER TUMBLER-ET	USA 70793780						
LARS-ACRES MOG FRAGRANT-ET	USA 71877503		C				
LARS-ACRES MOG TOOTHLESS-ET	USA 71877470						
LARS-ACRES MOG TOOTH PICK-ET	USA 71877480						
LARS-ACRES MOG TRIANGLE-ET	USA 70793779						
LARS-ACRES MOGUL 14553	USA 71877492						
LARS-ACRES MOGUL FIREUP	USA 71877611						
LARS-ACRES MOGUL JOSSIE	840003133735750						
LARS-ACRES MOGUL MAURICE	USA 71877830						
LARS-ACRES MOGUL NEVERMIND	840003128505686						
LARS-ACRES MOGUL POD	840003128505755						
LARS-ACRES MOGUL SAMMY	840003133735778						
LARS-ACRES MOGUL TAISIE	USA 71877541						
LARS-ACRES MOGUL TALISA	USA 71877554						
LARS-ACRES MOGUL TAYLI	USA 71877786		C				
LARS-ACRES MOGUL TAZI	USA 71877744						
LARS-ACRES MOGUL TIMER-ET	USA 71877469					C	
LARS-ACRES MOGUL TOASTY-ET	USA 71877474						
LARS-ACRES MOGUL TWISTIE	USA 71877532				C		
LARS-ACRES MOONRAY COURTNEY	840003124003542						
LARS-ACRES MOONRAY OREO	840003124003595						
LARS-ACRES MOONRAY SNAZY	840003124003278						
LARS-ACRES MOONRAY TIPTOP	840003124003264						
LARS-ACRES MOR FASHIONISTA	USA 72673669		C			C	
LARS-ACRES MORGAN AREO	USA 72673646					C	
LARS-ACRES MORGAN FREE RIDE	USA 72673516					C	
LARS-ACRES MORGAN FROZEN	USA 72673593						
LARS-ACRES MORGAN JACKIE	USA 72673597						
LARS-ACRES MORGAN TEQUILA	840003128506315						
LARS-ACRES MORGAN TIE DYE	USA 72673497						3
LARS-ACRES MORGAN TIME OUT	840003128506110					C	
LARS-ACRES MORGAN TINKLETIE	USA 72673432					C	
LARS-ACRES MORGAN TOO MUCH	USA 72673674					C	
LARS-ACRES MORGAN TRANS AM	USA 72673679		C				
LARS-ACRES MOSCOW 11925-ET	USA 66489015					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

83

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES MR T ADORABLE	840003124002995						
LARS-ACRES MR T GABRIELLE	840003124003091						
LARS-ACRES MR T OSTRICH	840003124003071						
LARS-ACRES MR T TENI	840003124002990						
LARS-ACRES MS SUPER FREAK	840003128506123						
LARS-ACRES MYRLE SUPER	840003128505752						
LARS-ACRES MYRLE THUNDER	840003128505658						
LARS-ACRES MYRLE TRAPPED	840003128505811						
LARS-ACRES NUM APPLE CIDER	USA 72672983						
LARS-ACRES NUMBER APPARENT	USA 72672954						
LARS-ACRES NUMBER M.I.A.	USA 71877914						
LARS-ACRES NUMBER MARGARITA	USA 72673470	C					
LARS-ACRES NUMBER MELROSE	USA 72673700						
LARS-ACRES NUMBER METALLICA	USA 72673152						
LARS-ACRES NUMBER MINI MART	USA 72673038						
LARS-ACRES NUMBER ONE GIGI	USA 72673165						
LARS-ACRES NUMBER ONE MUSIC	USA 72673077						
LARS-ACRES NUMBER STEEL TOE	USA 72672957						
LARS-ACRES NUMBER TIP-OFF	USA 71877917						
LARS-ACRES NUMBER TRIP UP	USA 72672974		C				
LARS-ACRES NUMBERONE TUNNEL	USA 72673552						
LARS-ACRES O-MAN2 MISSI	USA 71877675						
LARS-ACRES OAK BOOM	840003128505853						
LARS-ACRES OAK FLIGHT	840003124003541						
LARS-ACRES OAK FOREVER	USA 72673725		C				
LARS-ACRES OAK GALLELIO	840003124003563						
LARS-ACRES OAK JOLLYMIXER	840003124003566						
LARS-ACRES OAK MAGIC	840003133735739						
LARS-ACRES OAK PIONEER	840003124003485						
LARS-ACRES OAK QUINCEE	840003124003257			C			
LARS-ACRES OAK TABY	840003124003532						
LARS-ACRES OAK THURSDAY-TW	840003124003494						
LARS-ACRES OAK TIMELESS-ET	USA 72673292						
LARS-ACRES OAK TIMEPIECE-ET	USA 72673311						
LARS-ACRES OAK TIMER-ET	USA 72673260					C	
LARS-ACRES OAK TIMMER-ET	USA 72673379		C				
LARS-ACRES OAK TUESDAY-TW	840003124003493						
LARS-ACRES OAK TWISTY	840003124003518						
LARS-ACRES OBAY FOR SALE-ET	USA 72673794						
LARS-ACRES OBSERV TOOTHACHE	840003133735802						
LARS-ACRES OBSERV TRICKSTER	USA 70793168						
LARS-ACRES OBSERVE FLIPFLOP	USA 70793719						
LARS-ACRES OBSERVER FRESNO	840003133735816						
LARS-ACRES OBSERVER GALIN	USA 70793214						
LARS-ACRES OBSERVER SAGA	USA 72673772						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES OBSERVER SEQUIN	USA 72673756						
LARS-ACRES OBSERVER TERRI	USA 70793242		C				
LARS-ACRES OBSERVER TROUBLE	840003128505825		C				
LARS-ACRES ODEN GRETCHEN	840003124003601						
LARS-ACRES ODEN KENDRA	840003124003464						
LARS-ACRES OVER FACETIME-ET	USA 72673833		C				
LARS-ACRES OVERBAY BOOTS	840003124003470						
LARS-ACRES OVR FACEPLANT-ET	840003124003066						
LARS-ACRES PAL JELLY BEAN	USA 70793346	C					
LARS-ACRES PALERM PONDEROSA	USA 70793468	C					
LARS-ACRES PALERMO KANDI	USA 70793428						
LARS-ACRES PALERMO KARLIE	USA 70793588						
LARS-ACRES PALERMO LOU LOU	USA 70793432	C					
LARS-ACRES PARADISE FLORIDA	840003124003353						
LARS-ACRES PARADISE FRECKLE	840003124003596						
LARS-ACRES PARADISE SALSA	840003124003041						
LARS-ACRES PARADISE STRIPES	USA 71877592						
LARS-ACRES PARADISE TRIP	840003124003352						
LARS-ACRES PARADISE TROPICS	USA 72673629						
LARS-ACRES PARKER PATTY	USA 70793296						
LARS-ACRES PENNY EVERGREEN	USA 72673735						
LARS-ACRES PENNY MACBETH	840003124003670						
LARS-ACRES PENNY SOMBRERO	840003124003908						
LARS-ACRES PENNY TURNAROUND	840003124003544						
LARS-ACRES PENNYMAKE FLORAL	840003128506441		C				
LARS-ACRES PENNYMAKER AGGIE	840003124003562	C					
LARS-ACRES PENNYMAKER BEGAL	840003124003636						
LARS-ACRES PENNYMAKER KIRIE	840003128506382						
LARS-ACRES PENNYMAKER NELLY	840003128506556						
LARS-ACRES PENNYMAKER TRIAD	840003124003001						
LARS-ACRES PENNYMAKER VICE	840003128506430			C			
LARS-ACRES PETRON TOYOTA-ET	USA 71877367					C	
LARS-ACRES PETRONE TRACKS	USA 71877354	C					
LARS-ACRES PETRONE TREVA	USA 71877523						
LARS-ACRES PETY JIGGLE	840003128506130						
LARS-ACRES PETY OPLE	840003128505624						
LARS-ACRES PETY POLLY	840003133735807						
LARS-ACRES PETY SPEARS	840003128505894						
LARS-ACRES PETY TACKLE	840003128505888						
LARS-ACRES PETY TEAL	840003128505604						
LARS-ACRES PETY TESSA	840003133735760		C				
LARS-ACRES PHIL G NAME TAG	USA 70793594						
LARS-ACRES PLA TIGERSTRIPES	USA 70793793						
LARS-ACRES PLAN 14654	USA 71877593						
LARS-ACRES PLAN FITNESS	USA 71877512						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES PLAN MAKER	USA 71877637						
LARS-ACRES PLAN TENLEY SUE	USA 71877517						
LARS-ACRES PLANET 9824	USA 69604007						
LARS-ACRES PLANET 9998	USA 69604181						
LARS-ACRES PLANET FLASHBACK	840003124003728		C				
LARS-ACRES PLANET TAKEN	USA 69603378						
LARS-ACRES PLANET TAPPERS	USA 69603328						
LARS-ACRES PLANET TOMORROW	840003124003502						1
LARS-ACRES PLAT MAPLE SYRUP	USA 71877485						
LARS-ACRES PLATINUM TACTIC	USA 72673313			C			
LARS-ACRES PLATO FREEFALL	USA 71877778						
LARS-ACRES PLATO HATTIEANNE	USA 71877478						
LARS-ACRES PLATO JETT	USA 71877103			C			
LARS-ACRES PLATO MONA LISA	USA 71877455						
LARS-ACRES PLATO TWINKLY	USA 71877268		C				
LARS-ACRES PMAKER ARIANNA	840003128506006						
LARS-ACRES PNMK TURN-AROUND	USA 71877336					C	
LARS-ACRES POMPOSO BLAB	840003128506116						
LARS-ACRES POMPOSO E-Z	840003128505807	C					
LARS-ACRES POMPOSO MOVEOVER	840003128506154						
LARS-ACRES POMPOSO TIED	840003133735851						
LARS-ACRES POMPOSO TRIX	840003128505836						
LARS-ACRES POMPOSO VALIANT	840003128506054						
LARS-ACRES PONDER APPRICOT	840003128506298						
LARS-ACRES PONDER EDIBLE	840003133735793						
LARS-ACRES PONDER FOIL	840003133735871						
LARS-ACRES PONDER FORCAST	840003133735796						
LARS-ACRES PONDER FRENCHY	840003128506228		C				
LARS-ACRES PONDER GO-GET-IT	840003128506417						
LARS-ACRES PONDER JOLT	840003128505870						
LARS-ACRES PONDER JUICE	840003128505765						
LARS-ACRES PONDER MELTDOWN	840003128506033						
LARS-ACRES PONDER MOO-TOWN	840003128506334						
LARS-ACRES PONDER TAFFY	840003133735847						
LARS-ACRES PONDER TILLAGE	840003128506079						
LARS-ACRES PONDER TORRO	840003128506305						
LARS-ACRES POWRBLL ASKME-ET	840003128505964						
LARS-ACRES PRED TIGERESS	840003124003146						
LARS-ACRES PRED TROPICAL	USA 72673715					C	3
LARS-ACRES PREDES FELFIE-ET	USA 72673530						
LARS-ACRES PREDESTIN IPHONE	840003124003135						3
LARS-ACRES PREDESTIN JOANNE	USA 72673850						
LARS-ACRES PRINCE PICKLES	USA 68597882						
LARS-ACRES PRO TRYAGAIN-ET	840003128505730						
LARS-ACRES PROFIT FAMOUS-ET	840003133735767						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

86

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES PROFIT FIN-ET	840003133735799						
LARS-ACRES PROFIT FINE-ET	840003133735791						
LARS-ACRES PROFIT FINEST-ET	840003133735800						
LARS-ACRES PROFIT FORT-ET	840003133735790						
LARS-ACRES PROFIT TEASE-ET	840003128505670						
LARS-ACRES PROFIT TRYOUT-ET	840003128505735						
LARS-ACRES PUNCH ANICA	USA 72673062						
LARS-ACRES PUNCH MELODY	USA 72672948						
LARS-ACRES PUNCH MINT	USA 72673231						
LARS-ACRES PUNCH MOONSHINE	USA 72672933						
LARS-ACRES PUNCH NIGHT LIFE	USA 72673079						
LARS-ACRES PURE FIREBALL	840003128506104						
LARS-ACRES R FRIGHTENING-ET	840003124003095						
LARS-ACRES R TWINKLETOES-ET	USA 70793109					C	
LARS-ACRES R2 INGRID	USA 70793340						
LARS-ACRES R2 MIRAULOUS	USA 70793527						
LARS-ACRES RAC FEROCIOUS-ET	840003124003103						
LARS-ACRES RACE FEARLESS-ET	840003124003179						
LARS-ACRES RACER FANTA	840003124003635						
LARS-ACRES RACER FIERCE-ET	840003124003118						
LARS-ACRES RANCH MANGO	USA 71877373						
LARS-ACRES RANCH MORTIFY	USA 71877026						
LARS-ACRES RAV SHADE TREE	USA 70793410						
LARS-ACRES RAVECUT NADIA-ET	840003128506549						
LARS-ACRES RAVECUT NAOMI-ET	840003128506573						
LARS-ACRES REFLCTR OUTHUSE	840003128505867			C			
LARS-ACRES REFLECT KICK BUT	840003128506098						
LARS-ACRES REFLECT TUBBY-ET	840003124003076						
LARS-ACRES REFLECTOR IPHONE	840003128505868						
LARS-ACRES REFLECTOR MARKIT	840003128505815						
LARS-ACRES REFLECTOR MIKA	840003128505984						
LARS-ACRES REFLECTOR SOAR	840003128505970						
LARS-ACRES REFLECTOR TORCH	840003128505742						
LARS-ACRES REFLECTOR TROT	840003133735822					C	
LARS-ACRES REGINALD FIESTY	840003128506543						
LARS-ACRES RICHMAN 13177	USA 70793131						
LARS-ACRES ROB METROPOLIS	USA 71877243						
LARS-ACRES ROBUST BUTTON	USA 70793848						
LARS-ACRES ROBUST FLATTER	840003124003358						
LARS-ACRES ROBUST FLAWLESS	840003124003043						
LARS-ACRES ROBUST MAGIC	840003124003244						
LARS-ACRES ROBUST MELTDOWN	USA 71877860						
LARS-ACRES ROG TOUCHDOWN-ET	840003124003017						
LARS-ACRES ROK ALLISON	840003124003215						
LARS-ACRES ROK TOMB	840003124003349						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

87

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES ROY PRESIDENT	USA 69271800						
LARS-ACRES ROYALE MYLSSA	USA 65503957						
LARS-ACRES SG FRENCHLACE-ET	840003128506051					C	
LARS-ACRES SH SUGAR-COATED	USA 71877937						
LARS-ACRES SHAM EVERLASTING	USA 72673742						
LARS-ACRES SHAM FLASHLIGHT	USA 71877009						
LARS-ACRES SHAM FLOWER	USA 70793379						
LARS-ACRES SHAM FREERIDE	USA 71877307						
LARS-ACRES SHAM TALENTED	USA 71877219						
LARS-ACRES SHAM TAUNTING	USA 70793734						
LARS-ACRES SHAM TEMPLATE	USA 72673688						
LARS-ACRES SHAM TICKED-OFF	USA 70793235						
LARS-ACRES SHAM TROUBLE-ET	USA 71877064						
LARS-ACRES SHAMROCK AERO	840003124003079						
LARS-ACRES SHAMROCK FALLEN	USA 71877388						
LARS-ACRES SHAMROCK FIERY	USA 70793829						
LARS-ACRES SHAMROCK GLOW	USA 70793125		C				
LARS-ACRES SHAMROCK JAMBA	USA 71877262						
LARS-ACRES SHAMROCK SECRET	USA 71877586			C			
LARS-ACRES SHAMROCK SUMMIT	USA 72673318						
LARS-ACRES SHAMROCK TABLOID	USA 72673619						3
LARS-ACRES SHAMROCK TALIN	USA 70793554						
LARS-ACRES SHAMROCK TERRY	840003124003773						
LARS-ACRES SHAMROCK TILAPIA	USA 71877318						
LARS-ACRES SHAMROCK TINKER	USA 70793101		C				
LARS-ACRES SHAMROCK TRILOGY	USA 71877106						
LARS-ACRES SHAMROCK TUBA	USA 70793336						
LARS-ACRES SHERAC SOYBEAN	USA 70793172						
LARS-ACRES SHOT BONNET	USA 70793162					C	
LARS-ACRES SHOT BREE	USA 71877542					C	
LARS-ACRES SHOT BUBBLE GUM	USA 70793108					C	
LARS-ACRES SHOT FLATBREAD	USA 72673301		C				
LARS-ACRES SHOT KETCHUP	USA 70793416					C	
LARS-ACRES SHOT MY GIRL	USA 70793423					C	
LARS-ACRES SHOT TROPICANA	USA 70793300						
LARS-ACRES SHOTGLASS FUN	USA 72673207						
LARS-ACRES SHOTGLASS MIXER	USA 72673294						
LARS-ACRES SHOTGLASS TOPPLE	USA 72673592						
LARS-ACRES SHOUT BLUE	USA 72673529		C				
LARS-ACRES SHOUT HAPPY	USA 72673582						
LARS-ACRES SHOUT JUNGLE	USA 72673071						
LARS-ACRES SHOUT SCRATCHY	USA 72673201						
LARS-ACRES SHOUT TIME OUT	USA 72673678		C				3
LARS-ACRES SHOUT TREEHOUSE	USA 72673661						
LARS-ACRES SILVER FANCY-ET	840003128505616						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES SILVER FAWN-ET	840003128505920						
LARS-ACRES SILVER FINEST-ET	840003128505619						
LARS-ACRES SILVER FLEW-ET	840003128505922						
LARS-ACRES SILVER FROST-ET	840003128505628						
LARS-ACRES SILVER TAUNIE-ET	840003128506025					C	
LARS-ACRES SILVER TINKER-ET	840003128505618						
LARS-ACRES SILVER TRIN-ET	840003128505631						
LARS-ACRES SILVER TWEED-ET	840003128506056						
LARS-ACRES SILVR FLYAWAY-ET	840003128505923						
LARS-ACRES SKYLINE GALLOP	840003124003979						
LARS-ACRES SKYLINE TUBBY	840003124003898						
LARS-ACRES SLOAN SALAD	USA 71877113						
LARS-ACRES SLVR TWILIGHT-ET	840003128506037					C	
LARS-ACRES SONIC JUST-DO-IT	USA 71877399						
LARS-ACRES SONIC TABASCO	USA 71877475						
LARS-ACRES SOP GLAMOROUS-TW	840003124003038						
LARS-ACRES SOP GORGEOUS-TW	840003124003037						
LARS-ACRES SOPRANO MISTRESS	840003124003075						
LARS-ACRES SOPRANO SOSO	840003124003006	C					
LARS-ACRES SOTO 13505	USA 70793459						
LARS-ACRES SOTO SILO	USA 70793403						
LARS-ACRES SPARK TALENT-ET	840003128505863		C				
LARS-ACRES SPARK TIGER-ET	840003128505882						
LARS-ACRES SPRG FRENCHIE-ET	840003128506075					C	
LARS-ACRES SPRING AERO-ET	840003128505995	C					
LARS-ACRES SPRING FRIED-ET	840003128506066					C	
LARS-ACRES SPRSNC TRADEUP	840003128506046		C				
LARS-ACRES SS FREE-FOR-ALL	840003124003505						1
LARS-ACRES SS OVERHEAD	840003124003567						
LARS-ACRES SS THICKET	840003124003522						
LARS-ACRES STACKED MAGNOLIA	840003124003172			C			
LARS-ACRES STACKED SHAG	USA 72673804						1
LARS-ACRES SUPER APPLESAUCE	USA 72673412						
LARS-ACRES SUPER FREAKIE-ET	USA 69604165		C			C	
LARS-ACRES SUPER FREEBALL	840003128506121						
LARS-ACRES SUPER FRENCH FRY	USA 72672978					C	
LARS-ACRES SUPER KOMPUTER	USA 72673690						
LARS-ACRES SUPER MARIO	840003128506529						
LARS-ACRES SUPER SHAKE	USA 70793674						
LARS-ACRES SUPER TANGLER	840003128506087					C	
LARS-ACRES SUPER TASTY	840003128506182						
LARS-ACRES SUPER TIDAL WAVE	USA 72672977						
LARS-ACRES SUPER TONIC-ET	USA 72673047					C	
LARS-ACRES SUPER TOP TEN	840003128505679						
LARS-ACRES SUPER TRIUMPH	840003133735857						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES SUPERS TORMENT	USA 72673010						
LARS-ACRES SUPERS TUG BOAT	USA 72673080						
LARS-ACRES SUPERSIR TRIBUNE	USA 72673641						
LARS-ACRES SUPERSIRE ACORN	USA 72673147	C					
LARS-ACRES SUPERSIRE EASY	840003124003056						
LARS-ACRES SUPERSIRE FLIPPY	840003124003087						
LARS-ACRES SUPERSIRE FROG	840003128506174						
LARS-ACRES SUPERSIRE FROGY	840003133735844						
LARS-ACRES SUPERSIRE FRUITY	840003124003189						
LARS-ACRES SUPERSIRE GLAM	840003124003645						
LARS-ACRES SUPERSIRE MOOSE	840003128505732						
LARS-ACRES SUPERSIRE STAR	840003124003607						
LARS-ACRES SUPERSIRE TINKED	USA 72673809		C				
LARS-ACRES SUPERSIRE VS	USA 72673386			C			
LARS-ACRES SUPERSON BARBIE	USA 71877849						
LARS-ACRES SUPERSON MARTEH	USA 71877133			C			
LARS-ACRES SUPERSONIC GLEEN	USA 71877341						
LARS-ACRES SUPERSONIC HIPPY	USA 71877579						
LARS-ACRES SUPERSONIC KORBI	USA 71877700						
LARS-ACRES SUPERSONIC KRISP	USA 71877552						
LARS-ACRES SUPERSONIC TAN	USA 71877323						
LARS-ACRES SUPERSWEET	USA 71877161						
LARS-ACRES SURVIVOR EXTREME	USA 70793417						
LARS-ACRES SYMP ALL-IN-ONE	840003128506180						
LARS-ACRES SYMPHNY KOOLAIDE	840003128506015					C	
LARS-ACRES SYMPHONY SHINE	840003128505896						
LARS-ACRES TAILWIND OMG	USA 72673417						
LARS-ACRES TANGO FAN-ET	840003124003338		C				
LARS-ACRES TANGO FIT-ET	840003124003333						
LARS-ACRES TANGO FOG-ET	840003124003346		C				
LARS-ACRES TANGO FUN-ET	840003124003331		C				
LARS-ACRES TAP GINGERBREAD	840003124003817						
LARS-ACRES TAP OUT SOCKS	840003124003849		C				
LARS-ACRES TAPOUT BEYONCE	840003124003787		C				
LARS-ACRES TAPOUT JANUARY	840003124003872						
LARS-ACRES TATUM TREASURE	840003128506584						
LARS-ACRES TATUM TWISTED	840003124003940				C		
LARS-ACRES TATUM TYRANT	840003128506168		C				
LARS-ACRES TERMINATOR MURAL	USA 68597475	C					
LARS-ACRES TERRA TERA	USA 72673807						
LARS-ACRES TINKER BELL-ET	USA 72673253		C				
LARS-ACRES TINKER TOY-ET	USA 72673232		C				
LARS-ACRES TOPSY EASTER	840003128506196						
LARS-ACRES TOPSY MINT	840003128506378						
LARS-ACRES TOPSY OLYMPIAD	840003128506129						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES TOTAL RECALL-ET	840003124003710					C	
LARS-ACRES TRADING ADORE	840003128506286						
LARS-ACRES TRADING MONEY	840003128506329						
LARS-ACRES TRADITIONAL-ET	USA 71877828					C	
LARS-ACRES TRADITIONS-ET	USA 71877832						
LARS-ACRES TRIGGER 12283	USA 70054208						
LARS-ACRES TRIGGER NELLI	USA 71877804						
LARS-ACRES TRIGGER NIGHT	USA 71877145						
LARS-ACRES TRITON SWEETS	840003124003026						
LARS-ACRES TROOPER TAXI	USA 70793169						
LARS-ACRES TRUFFLE TALLY-ET	USA 71380004						
LARS-ACRES TRUFFLE-54458-ET	840003130273837						
LARS-ACRES TURBINE FROSTY	840003124003879					C	
LARS-ACRES TURBINE FROZEN	840003124003866						
LARS-ACRES TWERP FERN-ET	840003124003247						
LARS-ACRES WAT GABRIDINIE	USA 70793502			C		C	
LARS-ACRES WAT NIGHTWATCH	840003128505914			C			
LARS-ACRES WATSON DAISY	840003128506354					C	
LARS-ACRES WATSON GLOWING	840003128506125					C	
LARS-ACRES WATSON IDK	USA 70793487			C		C	
LARS-ACRES WATSON MILLER	840003128506364						
LARS-ACRES WATSON THYME	840003124003883			C		C	3
LARS-ACRES WIN ALL-AMERICAN	USA 70793768						
LARS-ACRES WING DANDYLION	USA 70793739						
LARS-ACRES WONKA KANDY	840003128506511			C			
LARS-ACRES WONKA POP	840003128506097						
LARS-ACRES WORLDWIND GAMER	840003124003372						
LARS-ACRES YANCE JOSLIE	840003124003003						
LARS-ACRES YODER EXPIRE	840003133735868						
LARS-ACRES YODER FALLOUT-ET	840003128506061						
LARS-ACRES YODER FANNY-ET	840003128506085						
LARS-ACRES YODER FAWN-ET	840003128506111						
LARS-ACRES YODER FOOLISH-ET	840003128506004						
LARS-ACRES YODER FRANNY-ET	840003128506099						
LARS-ACRES YODER FRET-ET	840003128506028						
LARS-ACRES YODER NALA-ET	840003124003732						
LARS-ACRES YODER NARMA-ET	840003124003722						
LARS-ACRES YODER NELLIE-ET	840003124003726						
LARS-ACRES YODER NIAGRA-ET	840003124003718						
LARS-ACRES YODER NICOLE-ET	840003124003730						
LARS-ACRES YODER TWIGGY-ET	840003128506267						
LARS-ACRES YODER TWINKEE-ET	840003128506273						
LARS-ACRES YODER WALNUT	840003128505664						
LARS-ACRES ZYKE FIREPHLY-ET	840003128505741						
LARS-ACRES ZYKE FLORA-ET	840003128505747						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

91

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LARS-ACRES ZYKE FONDUE-ET	840003128505756						
LARSONS ATWOOD PATTY	USA 142897616						
LARSONS KINGBOY PIXIE	USA 143584416						
LARSONS PLANET JOY	USA 142634985						
LASUE BRAXTON MISHA-ET	USA 70645965						
LASUE BRAXTON SHARKY	USA 69395017						
LASUE RAMSES COKE	USA 61854935						
LATIMORE ELECTRICTY DIVA	USA 135855315						
LATON-VIEW SARAH PALIN-RED	USA 142946413						
LATUCH ACTIVE LENA-ET	USA 66066778						
LATUCH ACTIVE LIZABEL-ET	USA 66066774						
LATUCH ACTIVE LIZBETH-ET	USA 66066775						
LATUCH ADRIAN TRINKET	USA 74328695						
LATUCH AIRNET TERESA	USA 71466910						
LATUCH BELAIR LOLITA-ET	USA 74328787						
LATUCH BOOKEM TOOTIE	USA 70020680						
LATUCH BOWSER LYTLE	USA 70020600						
LATUCH CALIBER TARYN	USA 70020679						
LATUCH CARLINO JACLYNN	840003130851772						
LATUCH CARLINO JAZZY-ET	840003130851759						
LATUCH CARLINO JEANNIE-ET	840003130851767						
LATUCH CASUAL LACRE-ET	USA 73531501						
LATUCH CASUAL LEATA-ET	USA 72773009						
LATUCH CRANK IT LABATT	USA 74328792						
LATUCH CRANK IT LEXI-ET	USA 74328789						1
LATUCH CRANK IT LEXUS-ET	USA 74328790						1
LATUCH CRANK IT LINT-ET	840003130851684						1
LATUCH CRANK IT LIZ-ET	840003130851703						
LATUCH DAMARIS LAKIN	840003130851734						
LATUCH DAMARIS PROPER	840003130851765						
LATUCH DEDUCTIVE LEONA	USA 74328736						
LATUCH DEDUCTIVE LIME	USA 74328706						
LATUCH DELTA LIANNA	USA 74328756						
LATUCH DELTA LOREN	840003130851686						
LATUCH DELTA LUELLA-TW	USA 74328771						
LATUCH DERBY LAUNA-ET	840003130851776						
LATUCH DERBY LIBBY-ET	840003134476452						
LATUCH DERBY LILA-ET	840003130851773			C			
LATUCH DERBY LUANNE-ET	840003134476451			C			
LATUCH DOMAIN LORAINA	USA 70020610						
LATUCH DOMMAIN TAMARA	USA 70819410						
LATUCH EARNIT LISA-ET	USA 69156321					C	
LATUCH EPIC TORRID-ET	USA 71466932						
LATUCH EPIC TRINITY	USA 72145201						
LATUCH EXPLODE TRIXIE	USA 71466883						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LATUCH FLYN PAGE-ET	USA 73531513						
LATUCH FLYN PRIMA-ET	USA 72773014						
LATUCH FLYN PRIMANT-ET	USA 72773020						
LATUCH FLYN PRINGLE-ET	USA 73531504						
LATUCH FLYNN PRESBUS-ET	USA 73531511						
LATUCH FRANK PHYLLIS-ET	USA 70819397						
LATUCH FREDDIE LORETTA	USA 66862283						
LATUCH FREDDIE RENEE	USA 69156289						
LATUCH FYLN PEGGY-ET	USA 72773016						
LATUCH GABOR CELEB	USA 69156297						
LATUCH GARRETT CHOKER	USA 69156291						
LATUCH GARRETT TUWEEP	USA 70819436						
LATUCH GERARD LAURA-ET	USA 70020605						
LATUCH GOLD CHIP LOLIPOP	USA 70819453						
LATUCH GOLDWYN TULIP	USA 70020632						1
LATUCH GREENWAY LANSING-ET	USA 73531566						
LATUCH HALOGEN LIPPS	USA 73531596						
LATUCH HUNTER PETAL-ET	USA 72145204						
LATUCH HUNTER TWISTER-ET	USA 71466943						
LATUCH JABIR LISHIA	USA 73531556						
LATUCH JACKMAN LILLY-ET	USA 72773002			C			
LATUCH JACKMAN LIRA	USA 72772975						
LATUCH JEEVES LOUIZA	USA 66862332						
LATUCH JEEVES PETUNIA	USA 66862277						
LATUCH JEEVES PICKLE-ETS	USA 66862305						
LATUCH JEEVES TENDER	USA 66862307						
LATUCH KINGBOY TROUBLE	840003130851705						
LATUCH KRUNCH JEN-ET	USA 72772951						
LATUCH LA-BRON PENNY-ET	USA 74328731						
LATUCH LABRON PETULA	USA 73531582						
LATUCH LARAINA-ETS	USA 72145249						
LATUCH LAURISA-ETS	USA 72145248						
LATUCH LEVI TRISKET	USA 71466919			C			
LATUCH LEWIS TAYLOR-ET	USA 71466884						
LATUCH LEWIS TWILLA-ET	USA 71466885						
LATUCH LITHIUM LADRIAN-ET	USA 72145240						
LATUCH LITHIUM LANA-ET	USA 72772929						
LATUCH LITHIUM LAYDI-ET	USA 72772941						
LATUCH LITHIUM LONI-ET	USA 72772930						
LATUCH LITHIUM LOOFA-ET	USA 72772933						
LATUCH LITHIUM TENYA	USA 72145237						
LATUCH LITHIUM TERINA	USA 72145232				C		
LATUCH LITHIUM TINSEL	USA 72145257						
LATUCH LITIUM TRENDIA	USA 72145223						
LATUCH MACK WILLOW-ET	USA 73531560						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LATUCH MACK WINE	USA 73531534						
LATUCH MAN O LEMMON	USA 66862328						
LATUCH MAN O LUCY	USA 72772960						
LATUCH MAN O WENDY	USA 71466900						
LATUCH MANDORA LYNDI-ET	USA 72145258						
LATUCH MAYFIELD LOLLY	USA 72145194			C			
LATUCH MICHAEL LORI-ET	USA 66066818						
LATUCH MOGUL LEAF-ET	USA 72145192						
LATUCH MOGUL LEANNA-ET	USA 72145189						
LATUCH MOGUL PEPPER-ET	USA 72145186						
LATUCH MOGUL PRELL-ET	USA 71466962						
LATUCH MOGUL PRISM-ET	USA 72145193						
LATUCH MOGUL TERRA-ET	USA 71466950						
LATUCH MONTROSS TEASE	USA 74328760						
LATUCH MONTROSS TWINKIE	USA 74328747						
LATUCH MUCHO LAURA	USA 72773018			C			
LATUCH NOMINEE PAULA	USA 74328717						
LATUCH O-DADDY LUKA-ET	USA 72145269						
LATUCH O-STYLE LACY-ET	USA 70819416			C			
LATUCH O-STYLE LAVA-ET	USA 70819389						
LATUCH O-STYLE LILAC-ET	USA 70819405						
LATUCH O-STYLE LUCIA-ET	USA 70819402						
LATUCH O-STYLE LUSCIOUS	USA 70819404						
LATUCH OAK 62-ET	840003013659147						
LATUCH OBSERVER LEZA	USA 70020685						
LATUCH OBSERVER TONYA	USA 70819443						
LATUCH OMAN LIBERTY	USA 69156260						1
LATUCH PARTYROCK LINDLEY	USA 74328726						
LATUCH PETRONE LIGHT-ET	USA 72145242						1
LATUCH PETRONE LOIS	USA 72145211						
LATUCH PETRONE LYNDA	USA 72145209						
LATUCH PETRONE TENSE	USA 72145213						
LATUCH PETRONE TREE-ET	USA 72145198						
LATUCH PETRONE TWANG-ET	USA 72145202						
LATUCH PETRONE TWELLA-ET	USA 72145221						
LATUCH PLANET LILA-ET	USA 66862331						
LATUCH PLANET WHEAT	USA 66862251						
LATUCH PREDES LINVEST-ET	USA 72772997						
LATUCH PREDESTINE TAWNIE	USA 72773008						
LATUCH PREDISTINE LORI	USA 72773003						
LATUCH ROBUST LASATA	USA 70819382						
LATUCH ROBUST LAVAL-ET	USA 70819442						
LATUCH ROBUST LAYLA-ET	USA 70819409						
LATUCH ROBUST LORA-ET	USA 70819450						
LATUCH ROBUST LOTION-ET	USA 70819462						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LATUCH RODGERS COMMA-TW	USA 74328759						
LATUCH RODGERS COMMON-TW	USA 74328758						
LATUCH ROLEX GRACE	USA 62106094						
LATUCH SATISFACTION LORAINÉ	USA 74328755						
LATUCH SHAMROCK JO	USA 70819396						
LATUCH SHAMROCK LACE-ET	USA 70819449						
LATUCH SHAMROCK LACEY-ET	USA 70819464						
LATUCH SHAMROCK LAKE-ET	USA 70819390						
LATUCH SHAMROCK LAUREN-ET	USA 70819441						
LATUCH SHAMROCK LEATHER-ET	USA 70819448						
LATUCH SHAMROCK LISHA-ET	USA 70819415						
LATUCH SHAMROCK PRETZEL	USA 70819392						3
LATUCH SHAMROCK TRACY	USA 71466868		C				
LATUCH SHAMROCK TRUE	USA 70819406						
LATUCH SPRING JENNIFER-ET	840003130851717						
LATUCH SPRING JILL-ET	840003130851719						
LATUCH SPRING LAB-ET	USA 74328772						
LATUCH SPRING LAMB-ET	840003130851680						
LATUCH SPRING LESLIE-ET	840003130851745						
LATUCH SPRING LIZZI-ET	USA 74328775						
LATUCH SPRING WYNONA	840003134476453						
LATUCH SSI OAK LILAC 73-ET	840003013659158						
LATUCH SUDAN NATALIE	USA 72145216						
LATUCH SUPER JAN	USA 72145222						
LATUCH SUPER LABELLA-ET	USA 72145247						
LATUCH SUPERSIRE PETULA-ET	USA 72145219						
LATUCH TROY JACKI	USA 74328777						
LATUCH TROY JANICE	USA 74328753						
LATUCH TROY LAMP-ET	USA 74328779						
LATUCH TROY LEIGH-ET	USA 74328788						1
LATUCH TROY LIGHTS-ET	USA 74328786						
LATUCH TROY LOUISE	USA 74328719						
LATUCH TROY TACKI	840003130851733						
LATUCH TUFFENUFF LOTION	USA 74328761						
LATUCH WICKHAM TILLIE	840003130851740						
LATUCH YODER ISCHUA	840003130851729						
LATUCH YUE LEMORI-ET	USA 70819417						
LAUDERMILCH ANALISA	USA 142488294						
LAUDERMILCH BEAR DEAR-ET	USA 143486802						
LAUDERMILCH BEKA DEAR-ET	USA 143486790						1
LAUDERMILCH BONNIE-ET	USA 143310170			C			1
LAUDERMILCH CHARLYN-ET	USA 142489736	C					
LAUDERMILCH CHOCOLATE-ET	USA 142490006	C					
LAUDERMILCH CLARIX-ET	USA 142490015						3
LAUDERMILCH CUPCAKE-ET	USA 142489718						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAUDERMILCH GAL	USA 142488285						
LAURALYNN	DNK 4433402481						1
LAUREATE DON JUAN MARITZA	USA 70330491						
LAUREATE FRANK KARENA	USA 71743750						
LAUREATE FRANK PRISCILLA	USA 71743715						
LAUREATE HERO JANA	USA 71743747	C					
LAUREATE LIESL MAKENYA	USA 71743734						
LAUREATE MASSEY TAMYA	USA 68874496						
LAUREATE PLANET CRYSTAL	USA 71743716						
LAUREATE PLANET JAZMYNE	USA 71743708						
LAUREATE SEBASTIAN CAYLEE	USA 71743711						
LAUREATE SEBASTIAN JESSYNID	USA 71743742						
LAUREL-BROOK SANCHEZ ELLEN	USA 68909875						
LAUREL-GROVE ABRAM PENELOPE	USA 72648515						
LAUREL-GROVE DURABL FRANNIE	USA 70511153		C				3
LAUREL-GROVE GUTHRIE AIMEE	USA 72648494						
LAUREL-GROVE HUSKY 73333	840003132198361						3
LAUREL-GROVE JACKS PETRINE	USA 66983727						
LAUREL-GROVE OLGN STARBRITE	USA 70511152						
LAUREL-GROVE ROLAND 67646	840003123611435						
LAURELBUD SKTEBOARD 3329	840003125915631						
LAUROLA HILL CAROL	USA 73324467						
LAUROLA HILL TEENIE	USA 73324460						
LAUROLA PLANET CHERYL	USA 73324459						
LAUROLA PLANET PALMER	USA 73324436						
LAUROLA PLANET THERESA	USA 73324450						
LAUROLA TUSCOBIA LAYLA	USA 73324444						
LAVEAU CORD ALIE	840003011906451						
LAVEAU ICE PACK SUZANNE	USA 56351353						
LAVEAU JUNIOR LORELEI	840003011906450						
LAVENNER MAID TALENT-RED-ET	USA 64980102						1
LAWNSIDE O-STYLE CLOVER-ET	USA 142295348			C			
LAWNSIDE SANCHZ ASPEN-ET	USA 72138706						
LAWNSIDE SNCHZ APACHE-ET	USA 72138705						
LAWNSIDE SS CARLEY-ET	USA 142518324						
LAWNSIDE SS CARRIE	USA 142712296						
LAWRENCE-HAVEN ANGEL-RED	USA 63782874						
LAWRENCE-HAVEN ARCADIA	USA 65801410						
LAWRENCE-HAVEN AUGUSTA-RED	USA 65801428						
LAWRENCE-HAVEN REDMAN ABYSS	USA 61826083						
LAWRENCE-HAVEN SUPERWOMAN	USA 68992764						
LAYMONT BUCKEYE TARA VIOLA	USA 62876266						
LAYMONT FINLEY LYDIA SALLY	USA 61817656						
LAYMONT MOGUL MAGGIE	USA 72504898						
LAYMONT RUBENS NESSIE PASHA	USA 60206375						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAZEE-Q PLANET DONNA	USA 70424642						
LAZY-A AFTERSHOCK 3766	840003128056101					C	
LAZY-A BRAXTON IDA 233-3-ET	USA 143142915						
LAZY-A BRAXTON IDA 246-ET	USA 143228886						
LAZY-A CAMERON EVA-1-ET	USA 142491089						
LAZY-A CARSON ALX SANDY-RED	USA 143615547						1
LAZY-A CARSON SANDY	USA 143615257			C			
LAZY-A GOLD ELEGANCE1-ET	USA 142491070						1
LAZY-A GOLDCHIP EVA-1-ET	USA 143269278						
LAZY-A GOLDWYN ELEGANCE1-ET	USA 140261785						
LAZY-A GOLDWYN JOSIE IDA-ET	USA 141853983						
LAZY-A GOLDWYN LOVE 514-ET	USA 140670965						3
LAZY-A GOLDWYN MIA-ET	USA 139547678						1
LAZY-A MALONE 3737	840003128056072						3
LAZY-A MCCUTCHEN 3745	840003128056080						
LAZY-A MCCUTCHEN 3806	840003131048926						
LAZY-A MCCUTCHEN EVA-2-ET	USA 143269296						
LAZY-A MCCUTCHEN EVA-5-ET	USA 143445054						
LAZY-A PRONTO LIZZY-ET	USA 139547708						
LAZY-A S-SIRE EMMA-40085	840003014226222						1
LAZY-A SAILING LOVIET 861	USA 141951896						3
LAZY-A SANCHEZ DANIELLE-ET	USA 141300926						
LAZY-A SANCHEZ EVE-ET	USA 141120614						
LAZY-A SANCHEZ IDA 777	USA 141604329						
LAZY-A SANCHEZ LOVIET-ET	USA 140670910						
LAZY-A SHOT LOVE 859	USA 141951887						3
LAZY-A SHOTTLE ELEGANCE 540	USA 140951996					C	
LAZY-A SHOTTLE POLLYANN-ET	USA 140062788					C	
LAZY-A STERLING MEESHA	USA 72902510						
LAZY-A SUPERSIRE SANDY	USA 142880902						
LAZY-A TOYSTORY HOLLY	USA 139546828						
LAZY-ACRES ABERLIN 2077	USA 71236658						
LAZY-ACRES APPLAUSE 2163	USA 71837490						
LAZY-ACRES BEACON 2020	USA 71236601			C			
LAZY-ACRES BOYBOY 2073	USA 71236654						
LAZY-ACRES BOYBOY 2075	USA 71236656						
LAZY-ACRES BOYBOY 2106	USA 71837433						
LAZY-ACRES BUD 2043	USA 71236624						
LAZY-ACRES CALVIN 2082	USA 71236663						
LAZY-ACRES CAMARY ISY 2066	USA 71236647	C			C		
LAZY-ACRES CAMELOT 2111	USA 71837438						
LAZY-ACRES CBRIOLET 5364-ET	USA 73683197						
LAZY-ACRES COMPLEX 2070	USA 71236651						
LAZY-ACRES DAMARIS 2571-ET	USA 74551087						
LAZY-ACRES DAMARIS 2572-ET	USA 74551088						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

97

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAZY-ACRES DAMARIS 2573-ET	USA 74551089						
LAZY-ACRES DELTA 5304-ET	USA 73683137						
LAZY-ACRES DELTA 5305-ET	USA 73683138						
LAZY-ACRES DELTA 5306-ET	USA 73683139						
LAZY-ACRES DELTA 5308-ET	USA 73683141						
LAZY-ACRES DENIM 2088	USA 71236669						
LAZY-ACRES DENIM 2324	USA 73316319						
LAZY-ACRES DENIM 2345	USA 73316340						
LAZY-ACRES DETROIT 2339	USA 73316334						
LAZY-ACRES DETROIT 2348	USA 73316343						
LAZY-ACRES EDEN 2109	USA 71837436					C	
LAZY-ACRES FRANK 2096	USA 71236677						
LAZY-ACRES FREDDIE 2011	USA 71236592						
LAZY-ACRES FREDDIE 2032	USA 71236613						
LAZY-ACRES FREDDIE 2035	USA 71236616						
LAZY-ACRES FREDDIE 2110	USA 71837437						
LAZY-ACRES FREDDIE 2220	USA 72383940						
LAZY-ACRES JACEY 2477-TW	USA 73796095						
LAZY-ACRES JACEY 2478-TW	USA 73796096						
LAZY-ACRES JAKE 2311	USA 73316306						
LAZY-ACRES JAKE 2369	USA 73316364			C			
LAZY-ACRES JAKE 2374	USA 73316369						
LAZY-ACRES JARMIL 1945	USA 70579559						
LAZY-ACRES JIVES 2005	USA 71236586	C					
LAZY-ACRES JOCK 2010	USA 71236591						
LAZY-ACRES JOURNEY 2629	840003132381918				C		
LAZY-ACRES LAYNE 2334	USA 73316329						
LAZY-ACRES LEADED 2561	USA 74551077						
LAZY-ACRES LEADED 2603	840003132381892						
LAZY-ACRES LIESL 2022	USA 71236603						
LAZY-ACRES MICROSOFT 2280	USA 72384000						
LAZY-ACRES MONARCH 2435	USA 73796053						
LAZY-ACRES MONARCH 2439	USA 73796057						
LAZY-ACRES O-STYLE 2319	USA 73316314			C			
LAZY-ACRES OBSERVER 2008	USA 71236589			C			
LAZY-ACRES OBSERVER 2012	USA 71236593						
LAZY-ACRES OBSERVER 2019	USA 71236600						
LAZY-ACRES OBSERVER 2040	USA 71236621						
LAZY-ACRES OBSERVER 2054	USA 71236635						
LAZY-ACRES OBSERVER 2056	USA 71236637						
LAZY-ACRES ORLANDO 2179	USA 71837506			C			
LAZY-ACRES ORLANDO 2180	USA 71837507						
LAZY-ACRES OVERBAY 2396	USA 73316391						
LAZY-ACRES PAVETHEWAY 2072	USA 71236653						
LAZY-ACRES RAINIER 2326	USA 73316321						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LAZY-ACRES SALUT 2487	USA 73796105		C				
LAZY-ACRES SERGIO 2207	USA 72383927						
LAZY-ACRES SHAC 2250	USA 72383970						
LAZY-ACRES SMORE 2228	USA 72383948						
LAZY-ACRES SMORE 2230	USA 72383950						
LAZY-ACRES SUDAN 2036	USA 71236617	C					
LAZY-ACRES SUPERSONIC 2254	USA 72383974						
LAZY-ACRES TAPE 2187	USA 71837514			C			
LAZY-ACRES TEXIERA 2090	USA 71236671		C				
LAZY-ACRES TEXIERA 2094	USA 71236675		C				
LAZY-ACRES TIME 2085	USA 71236666						
LAZY-ACRES TRES 2353	USA 73316348						
LAZY-ACRES TRES 2356	USA 73316351						
LAZY-ACRES TROY 2580	USA 74551096						
LAZY-ACRES TUCK 2006	USA 71236587						
LAZY-ACRES TUSCOBIA 2456	USA 73796074						
LAZY-ACRES VECTOR 2262	USA 72383982						
LAZY-ACRES VECTOR 2272	USA 72383992						
LAZY-ACRES VIBRANT 2099	USA 71236680		C				
LAZY-ACRES VIBRANT 2105	USA 71837432						
LAZY-ACRES VIBRANT 2112	USA 71837439						
LAZY-ACRES VIGOR 2278	USA 72383998			C			
LAZY-ACRES VISTA 2357	USA 73316352			C			
LAZY-ACRES VISTA 2360	USA 73316355			C			
LAZY-ACRES VISTA 2363	USA 73316358			C			
LAZY-ACRES WILTON 2069	USA 71236650						
LAZYACRES-LH B MEMORY LU-ET	USA 69012379						
LAZYACRES-LH ROSEY P-RED-ET	USA 66383563						
LBH SHOTTLE MAGNET-ET	USA 137993718						
LBH SHOTTLE MAGNIFY-ET	USA 137993727					C	
LC-MLG SR TIFFANY-ET	USA 64215395						
LC-OSCWIL SUPERSIRE 9998	USA 74430806						
LE FLEU 707-ET	DEU 663463969						
LE-ARA SOVEREIGN RUDY-TW	USA 138975090						
LE-LIS ABSOLUTE AUSTRIA-ET	USA 73978301						
LE-LIS EXPLODE BLISS	USA 72047154						1
LE-LIS SHAQLLE ALEX	USA 69547757						
LE-LIS SHOTTLE ANDREA	USA 69547836					C	
LE-LIS SHOTTLE AUGUST	USA 66937120						
LE-LIS TALENT ELLEN	USA 62755789						1
LE-O-LA ACME CASSIDY-ET	USA 71303650						
LE-O-LA ATWOOD LIZA-ET	USA 72608692						
LE-O-LA BELICIA-ET	USA 66527763						
LE-O-LA BELINDA-ET	USA 66527750						
LE-O-LA BOARDSHOP CARLEE	USA 72608736						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LE-O-LA CHARISMA-ET	USA 72608705						1
LE-O-LA CHARM-ET	USA 72608706						1
LE-O-LA DELTA DIANE	USA 72608722						
LE-O-LA DOORSOPEN BRIANNA	USA 72608735	C		C			
LE-O-LA DURABLE LADY	USA 71303609		C				3
LE-O-LA ELEXUS	USA 66527746						
LE-O-LA EPIC CAMARA-ET	USA 71303586						
LE-O-LA EPIC CARLO-ET	USA 71303596						
LE-O-LA EPIC GALENA-ET	USA 71303570						
LE-O-LA EPIC GALYA-ET	USA 71303569						
LE-O-LA GAMBLER TRICIA	USA 72608673						
LE-O-LA GERARD RHIANA-ET	USA 69737262						
LE-O-LA GOLDCHIP MERDITH	USA 69737295						
LE-O-LA GOLDEN GIRL-ET	USA 72608644						
LE-O-LA HALOGEN BECKY-ET	USA 72608698						
LE-O-LA HALOGEN BETH-ET	USA 72608699						
LE-O-LA HALOGEN BRETTE-ET	USA 72608683			C			
LE-O-LA HALOGEN MABEL-ET	USA 72608660						
LE-O-LA HALOGEN MELISSA-ET	USA 72608695						
LE-O-LA HALOGEN MINDY-ET	USA 72608696					C	
LE-O-LA HEADLINER MARSHA	USA 71303618					C	
LE-O-LA HEADLINER TAB-ET	USA 71303626						
LE-O-LA HUNGER GLORIA-ET	USA 72608648						
LE-O-LA HUNTER ECHO-ET	USA 71303627						
LE-O-LA JABIR DOTTY	USA 72608661						
LE-O-LA KINGBOY CHER	USA 72608702						
LE-O-LA KRUSADER GOLDIE	USA 69737298	C					
LE-O-LA LANCOME MELANIE-ET	USA 72608690						
LE-O-LA LIQUID GEM-ET	USA 72608643						
LE-O-LA MAYFIELD RANA	USA 71303594						
LE-O-LA MCCUTCHEN CARISA-ET	USA 72608677						
LE-O-LA MCGIRT GALLAGHER	USA 72608675						
LE-O-LA MERIDIAN CANDY-ET	USA 71303619						
LE-O-LA MERIDIAN CARMAL-ET	USA 71303620						
LE-O-LA MOGUL MICHELLE-ET	USA 71303601					C	
LE-O-LA OAK GABBY-ET	USA 71303661						
LE-O-LA OAK GAIL-ET	USA 71303662						
LE-O-LA OAK RUBY-D	USA 72608662						
LE-O-LA OCTFEST BRIDGET-ET	USA 72608726						
LE-O-LA OCTFEST BRITTANY-ET	USA 72608729						
LE-O-LA PLANET ROXANA-ET	USA 66527759						
LE-O-LA RACER CARMELLA-ET	USA 72608694						
LE-O-LA RACER CLAUDIA-ET	USA 72608682						
LE-O-LA SHAMROCK PAULA-ET	USA 71303592						
LE-O-LA SHAMROCK PEARL-ET	USA 69737288						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

100

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LE-O-LA SHAMROCK PEBBLES-ET	USA 69737289						
LE-O-LA SHAN DIXIE	USA 71303638						
LE-O-LA SHOTTLE LACEY	USA 69737296					C	
LE-O-LA STOLC TASTE	USA 72608689						
LE-O-LA SUPERSIRE TAMARY-ET	USA 71303636						
LE-O-LA SUPERSIRE TASHA-ET	USA 71303658						
LE-O-LA SUPERSIRE TESSA-ET	USA 71303648						
LE-O-LA SUPERSIRE TILLY-ET	USA 71303659						
LE-O-LA SUPERSON GALAXY-ET	USA 69737316						
LE-O-LA SUPERSON GOLDEN-ET	USA 69737317						
LE-O-LA TALENT LIBBY	USA 63719919						
LE-O-LA TITANIC BLARE-ET	USA 62397370						
LE-O-LA UNO GAIL-ET	USA 71303582						
LE-O-LA UNO GEORGIA-ET	USA 71303581						
LE-O-LA UNO GRAYCE-ET	USA 71303608						
LE-O-LA UNO RAE-ET	USA 72608667						
LE-O-LA UNO RAIN-ET	USA 72608668						
LE-O-LA WIND BRENDA-ET	USA 69737285						1
LE-O-LA WINDBROOK 1353-ET	USA 73329221						
LE-O-LA WINDBROOK CELEBRITY	USA 72608650						1
LE-O-LA-JH ARMITAGE RADIANT	USA 69737301					C	
LE-O-LA-JH GOLD RAYA-ET	USA 71303591						
LE-O-LA-JH SHOTTLE ROXY-ET	USA 66527780					C	
LEADERCREEK HALOGEN VIOLET	USA 143084710						
LEADERWIN ARMANI MARIBEL-ET	840003133199424						
LEADERWIN ARMANI MARYANN-ET	840003133199423						1
LEADERWIN ARMANI MULBERRY	840003132146857	C					
LEADERWIN ATWOOD MARIA-ET	USA 141317144	C					
LEADERWIN ATWOOD MARION	840003131512258						
LEADERWIN ATWOOD MINUTE	USA 141945080						
LEADERWIN ATWOOD S-MORE-ET	840003132146849						
LEADERWIN BOLIVIA MODEL-ET	USA 139924686						
LEADERWIN BOM MIS MERICA-ET	840003132146870						
LEADERWIN BOMBER MONARDA-ET	840003132146835						
LEADERWIN BOMBERO MEADOW-ET	840003132146837						
LEADERWIN BOMBERO MEET-ME	USA 73761712						
LEADERWIN BOMBERO MERRO-ET	USA 73958487						
LEADERWIN BOMBERO MIM	USA 143192853						
LEADERWIN BOMBERO MINNIE-ET	840003132146833						
LEADERWIN BOOKEM MERCY-ET	USA 141317162						
LEADERWIN BROKAW MARION-ET	USA 73761684						
LEADERWIN BROKAW MILA	840003132146850						
LEADERWIN CAMERON MARIA	USA 142300424						
LEADERWIN DDCTN-P-R MAUD	840003131512270						
LEADERWIN DEDUCTIVE MAGI	USA 143086310						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEADERWIN DEFFENDER MILOVE	USA 73958493						
LEADERWIN DELIA MYRA-ET	840003133199427						
LEADERWIN DELTA MARIROSE-ET	840003133199428						
LEADERWIN DELTA MOXIE-ET	840003133199429						
LEADERWIN DOMAIN MANDY-ET	USA 141208907						
LEADERWIN DOMAIN MARVEL-ET	USA 140949700	C					
LEADERWIN DOMAIN MEDAL-ET	USA 140867280						
LEADERWIN DOMAIN MIRACLE-ET	USA 140949719						
LEADERWIN DOMAIN MIST 2-ETN	840003009532917						
LEADERWIN DOMAIN MIST 3-ETN	840003009532918						
LEADERWIN DOMAIN MIST 4-ETN	840003009533522						
LEADERWIN DOMAIN MIST-ET	USA 140865747						
LEADERWIN EPIC MELLON	USA 142500039						
LEADERWIN GUTH MANDAVILA-ET	USA 141853572						
LEADERWIN HALOGEN MARINA-ET	USA 73958505						
LEADERWIN HALOGEN MENT-ET	USA 73958495						
LEADERWIN HUNTER MELLOW	USA 142637577						
LEADERWIN HUNTR MAGNOLIA-ET	USA 142600579						
LEADERWIN IOTA MARYLAND-ET	USA 141547974						
LEADERWIN IOTA MONDAY-ET	USA 141496111	C					
LEADERWIN JEEVES MACE	USA 139793707						
LEADERWIN JOSUPER MOLLY-ET	USA 73761715						
LEADERWIN KINGBOY MINGLE-ET	USA 73958513						
LEADERWIN LAD P MARSH	USA 73761709						
LEADERWIN LARGE MILLIE-ET	USA 142053210						
LEADERWIN LARGE MISTIC-ET	USA 142053238						
LEADERWIN LARGE MODINA-ET	USA 142053229						
LEADERWIN LARGE MOODY-ET	USA 142053247						
LEADERWIN LEXOR MALT	USA 142389308						
LEADERWIN LEXOR MANDA	USA 142389317						
LEADERWIN LIT SNOW MAGNA-ET	USA 142845020			C			
LEADERWIN LITHIUM MYRTEE-ET	USA 142600618	C					
LEADERWIN LITSNOW MERLY-ET	USA 142845011						
LEADERWIN LMAX MACAROON-ET	USA 73761723						
LEADERWIN LOOK MARCIE-ET	USA 141311344						
LEADERWIN LOTOMX MONTANA-ET	USA 73761721						
LEADERWIN LOTTOMAX MAVIS-ET	840003131512262						
LEADERWIN LOTTOMAX MAXIE-ET	840003131512261						
LEADERWIN LOTTOMAX MERI-ET	USA 73958519	C					
LEADERWIN LSNOW MERIBELA-ET	USA 142501094	C					
LEADERWIN MAN-O-MAN MIRROW	USA 142845002						
LEADERWIN MASSEY MIMI-ET	USA 142779482	C					
LEADERWIN MASSEY MUM-ET	USA 142600645			C			
LEADERWIN MAY MIRACLE-ET	USA 72590252						
LEADERWIN MERIDEAN MINT-ET	USA 142387294						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEADERWIN MILES MANTZ-ET	USA 73676503						
LEADERWIN MILES MANY-ET	USA 142794089	C					
LEADERWIN MILES MARIDETH-ET	USA 142801532			C			
LEADERWIN MILES MEGAN-ET	USA 142801514						
LEADERWIN MILES MISSOURI	840003132146847						
LEADERWIN MILES MORGAN-ET	USA 142801523			C			
LEADERWIN MILES MYRTLE-ET	USA 142904440			C			
LEADERWIN MOGUL MELINDA-ET	USA 142245718						
LEADERWIN MOGUL MIRIAM-ET	USA 142245709						
LEADERWIN MOGUL MISSIE-ET	USA 72590247	C					
LEADERWIN MOGUL MISSY	USA 142289970						
LEADERWIN MOGUL MONICA-ET	USA 142615964						
LEADERWIN MONTEREY MACADAMI	840003132146836						
LEADERWIN MONTEREY MYSTIC	840003132146844						
LEADERWIN MUSCADET MAUREEN	840003132146859						
LEADERWIN MUSDET MOSSYROSE	840003132146851						
LEADERWIN NOMINE MADISON-ET	USA 143086730						
LEADERWIN NOMINE MONTANA-ET	USA 143086721						
LEADERWIN NOMINEE MITEY-ET	USA 73676525						
LEADERWIN O-STYLE MAYME-ET	USA 141718020			C			
LEADERWIN O-STYLE MICKY-ET	USA 141619479	C		C			
LEADERWIN OBSERVER MARY-ET	USA 140976744						
LEADERWIN OBSERVER MATTI-ET	USA 141185394						
LEADERWIN OBSERV R MARTHA-ET	USA 141097303						
LEADERWIN OBSERV R MEMORY-ET	USA 141100683	C					
LEADERWIN OBSRV R MARANDA-ET	USA 141205436						
LEADERWIN OBSRV R MIHEART-ET	USA 141205445						
LEADERWIN OSTYLE MISTAKE-ET	USA 141718039			C			
LEADERWIN P MADONNA-ET	USA 71298592						3
LEADERWIN PDESTIN MELLOW-ET	USA 142904459						3
LEADERWIN PDESTIN MELODY-ET	USA 142904431						3
LEADERWIN PETRONE MARGIE-ET	USA 142615955						
LEADERWIN PETRONE MARTY	USA 142430161						
LEADERWIN PETRONE MERRY	USA 142245585	C					
LEADERWIN POWERBALL MIRA-ET	840003131512253						
LEADERWIN PREDES MICHELE-ET	USA 142794070						
LEADERWIN PREDESTINE MON-ET	USA 142917329	C					3
LEADERWIN PREDESTN MAPLE-ET	USA 142637568						
LEADERWIN PREDSTNE MLENA-ET	USA 73676513	C					3
LEADERWIN PURE MALENA-ET	USA 143396323						
LEADERWIN PWRBLL MARVA-ET	840003131512289						
LEADERWIN RAVI MAGDALENA-ET	USA 141369114						
LEADERWIN RCH MAYBELLE-ET	USA 71298601	C					
LEADERWIN RCH MAYFLOWER-ET	USA 71298607	C					
LEADERWIN SAVE MONARCH	USA 73761700						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEADERWIN SHOT MILKSHAKE-ET	USA 142600627						
LEADERWIN SILVER MADORA-ET	840003131512269						
LEADERWIN SILVER MAREN-ET	840003131512265						
LEADERWIN SILVER MUFFIN-ET	840003132146858	C					
LEADERWIN SNCHZ MARIGOLD-ET	USA 140541591	C					
LEADERWIN SNOMAN MYSTERY-ET	USA 141365044	C					
LEADERWIN SNOW MELT-AWAY-ET	USA 141368980			C			
LEADERWIN SUPER MAGICAL	USA 141092465						
LEADERWIN SUPERS MELANIE-ET	USA 142387276						
LEADERWIN SUPERSHOT MELA-ET	USA 73958520						
LEADERWIN SUPERSHOT MICY-ET	USA 73958516						
LEADERWIN SUPERSIRE MAZE-ET	USA 142362352						
LEADERWIN SUPERSIRE MYLA-ET	USA 142779473						
LEADERWIN SUPERSR MONICA-ET	USA 142407354						
LEADERWIN SUPRSHT MUFFET-ET	USA 73958524						
LEADERWIN SUPRSIRE MARCH-ET	USA 142387249						
LEADERWIN TALENT MAPLE	USA 142500020						1
LEADERWIN TANGO MAINE	USA 73761677	C	C				
LEADERWIN TANGO MATHIE	USA 73676514	C					
LEADERWIN TANGO MERCH	USA 73676504	C					
LEADERWIN TOPSIDE MILRED-ET	USA 73676499						
LEADERWIN UO MORNINGSTAR-ET	USA 141982450						
LEADERWIN YODER MARIJOY-ET	840003131512282						
LEADERWOOD HYACINTH-RED-ET	USA 73761682						
LEADERWOOD L H-LIGHT-RED-ET	USA 73761689						1
LEADERWOOD L HAPIDAY-RED-ET	USA 73761681						1
LEADERWOOD L HEATHER-RED-ET	USA 73761690						1
LEADERWOOD LAD HONEY-RED-ET	USA 73761678						
LEADERWOOD LADD HAZY-RED-ET	USA 73761680						1
LEADERWOOD LD HAWAII-RED-ET	USA 73761691						
LEADERWOOD MUSCADET MADONNA	840003132146845						
LEADERWOOD SILVER MAYA-ET	840003131512264						
LEADERWOOD SILVER MEEK-ET	840003132146862						
LEADERWOOD SILVER MIA-ET	840003132146853						
LEAK AMERICA DAMSEL-ET	840003130682858						
LEAK BEAU MIST	USA 69931826						
LEAK CASHCOIN PRIMROSE-ET	USA 72969528						1
LEAK COLT45 ROSE-ET	USA 72969514						1
LEAK EL BOMBERO NADINE-ET	USA 72969546						
LEAK JOSUPER DAMSEL-ET	840003130682873						
LEAK JR LIBBY APPLE-ET	840003126073762						1
LEAK JR SUNDANCE APPLE-ET	USA 72969547						
LEAK LABRON DONALYN-ET	840003126073763						
LEAK LABRON DONNA-ET	840003130682849						
LEAK LABRON ROSE-ET	840003130682861						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEAK LADDMAN ROSE-ET	840003130682853						1
LEAK LEVI MINT MILANO	USA 69931821						
LEAK MCCORMICK MENTHOL-ET	USA 69931827			C			
LEAK MILLION MINTY	USA 69931815						
LEAK MILLION MISTY-ET	USA 69931814						
LEAK OHARE DABBLE-ET	USA 72969523			C			
LEAK POWERBALL DIAMOND-ET	840003130682870						
LEAK PURE DAMSEL-ET	840003130682879						
LEAK PURE NICKALA	840003126073761						
LEAK ROSE OF LABRON-ET	840003130682848						1
LEAK ROSES ARE NICE-ET	840003130682868						1
LEAK ROSES FOR CASH-ET	USA 72969531						2
LEAK ROSES IN SPRING-ET	840003130682851						
LEAK SOTO DEZI	USA 69931820						
LEAK SPRING DAMSEL-ET	840003130682874						
LEAK STOIC DAMSEL-ET	840003130682875						
LEAK SUPER ROSE-ET	840003130682869						
LEAK SUPERSHOT ROSE-ET	840003130682871						1
LEAK TANGLED ROSE-ET	USA 72969533		C				
LEAK TANGO DABBLED-ET	USA 72969526		C				
LEAK TANGO DONNA-ET	USA 72969532		C				
LEANINGHOUSE 1STCL 21716-ET	840003129136272					C	
LEANINGHOUSE 20234 21423	840003129135979						
LEANINGHOUSE A 21292-RED-ET	840003124584935						
LEANINGHOUSE A 21296-RED-ET	840003127943754						
LEANINGHOUSE AHAHM 21103-ET	USA 74146854						1
LEANINGHOUSE AL 20335	USA 72237397						
LEANINGHOUSE AL 20356	USA 72237418						
LEANINGHOUSE ANAHM 21101-ET	USA 74146852						1
LEANINGHOUSE ANAHM 21102-ET	USA 74146853						
LEANINGHOUSE ANAHM 21293-ET	840003124584933						1
LEANINGHOUSE ANAHM 21294-ET	840003124584873						1
LEANINGHOUSE ANRMN 22037-ET	840003131992781						
LEANINGHOUSE APC 21554-TW	840003129136110					C	
LEANINGHOUSE APPLE C 21400	840003129135956						
LEANINGHOUSE ARMITAGE ANNA	USA 72237224						
LEANINGHOUSE ARMTAGE 20187	USA 72237249						
LEANINGHOUSE ASHNT 21077-ET	USA 74146828			C			
LEANINGHOUSE ATWOOD 20111	USA 72237173						
LEANINGHOUSE B RHONDA 4775	840003123835415						
LEANINGHOUSE BALTIMOR 21274	USA 74147025						
LEANINGHOUSE BANCO 22083-ET	840003131992827						
LEANINGHOUSE BAYNT 21604-ET	840003129136160						
LEANINGHOUSE BAYNT 21609-ET	840003129136165						
LEANINGHOUSE BAYNT 21977-ET	840003130431948						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE BAYNT 21980-ET	840003130431951						
LEANINGHOUSE BAYNT 21981-ET	840003130431952						
LEANINGHOUSE BAYNT 21983-ET	840003130431954						
LEANINGHOUSE BAYNT 21984-ET	840003130431955						
LEANINGHOUSE BAYNT 21985-ET	840003130431956						
LEANINGHOUSE BAYNT 21987-ET	840003130431958						
LEANINGHOUSE BAYNT 21988-ET	840003130431959						
LEANINGHOUSE BAYNT 21990-ET	840003130431961						
LEANINGHOUSE BAYNT 21991-ET	840003130431962						
LEANINGHOUSE BAYNT 21992-ET	840003130431963						
LEANINGHOUSE BAYNT 21993-ET	840003130431964						
LEANINGHOUSE BAYNT 21994-ET	840003130431965						
LEANINGHOUSE BAYNT 21995-ET	840003130431966						
LEANINGHOUSE BAYNT 21996-ET	840003130431967						
LEANINGHOUSE BAYNT 22001-ET	840003131992745						
LEANINGHOUSE BAYNT 22002-ET	840003131992746						
LEANINGHOUSE BAYNT 22023-ET	840003131992767						
LEANINGHOUSE BAYNT 22026-ET	840003131992770						
LEANINGHOUSE BAYNT 22110-ET	840003131992854						
LEANINGHOUSE BAYNT 22121-ET	840003131992865						
LEANINGHOUSE BAYNT 22124-ET	840003131992868						
LEANINGHOUSE BAYNT 22127-ET	840003131992871						
LEANINGHOUSE BAYONET 21592	840003129136148						
LEANINGHOUSE BAYONET 21593	840003129136149						
LEANINGHOUSE BAYONET 21611	840003129136167						
LEANINGHOUSE BAYONET 21677	840003129136233						
LEANINGHOUSE BELAR 21715-ET	840003129136271						
LEANINGHOUSE BELAR 21719-ET	840003129136275						
LEANINGHOUSE BELR 21961-ET	840003130431932						
LEANINGHOUSE BELTER 20270	USA 72237332						
LEANINGHOUSE BELTER 20271	USA 72237333						
LEANINGHOUSE BELTER 20272	USA 72237334						
LEANINGHOUSE BELTER 20274	USA 72237336						
LEANINGHOUSE BELTER 20275	USA 72237337						
LEANINGHOUSE BELTER-TW	USA 72237330						
LEANINGHOUSE BMBRO 21133-ET	USA 74146884						
LEANINGHOUSE BMBRO 21134-ET	USA 74146885						
LEANINGHOUSE BMBRO 21141-ET	USA 74146892						
LEANINGHOUSE BMBRO 21142-ET	USA 74146893						
LEANINGHOUSE BMBRO 21143-ET	USA 74146894						
LEANINGHOUSE BMBRO 21145-ET	USA 74146896						
LEANINGHOUSE BMBRO 21146-ET	USA 74146897						
LEANINGHOUSE BMBRO 21147-ET	USA 74146898						
LEANINGHOUSE BMBRO 21149-ET	USA 74146900						
LEANINGHOUSE BMBRO 21152-ET	USA 74146903						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE BMBRO 21156-ET	USA 74146907						
LEANINGHOUSE BOASTFUL 21601	840003129136157						
LEANINGHOUSE BOASTFUL 21615	840003129136171						
LEANINGHOUSE BOMBERO 21379	840003129135935						3
LEANINGHOUSE BRODIE 21574	840003129136130						1
LEANINGHOUSE BRODIE 21600	840003129136156						
LEANINGHOUSE BRYANT 20952	USA 74146703						
LEANINGHOUSE BYONT 21594-TW	840003129136150						
LEANINGHOUSE CAMERON 20164	USA 72237226						
LEANINGHOUSE CAMERON 20184	USA 72237246						1
LEANINGHOUSE CAMERON 20198	USA 72237260						
LEANINGHOUSE CAMERON 20222	USA 72237284						
LEANINGHOUSE CAMERON 20242	USA 72237304						
LEANINGHOUSE CAROL 4944-RED	840003130800602						
LEANINGHOUSE CASHCOIN 21290	USA 74147041						3
LEANINGHOUSE CASHCOIN 21375	840003129135931						3
LEANINGHOUSE CHEERIO 20773	USA 73450291	C					
LEANINGHOUSE CHICAGO 20651	USA 72958168						
LEANINGHOUSE CHOPS 21110-ET	USA 74146861						
LEANINGHOUSE CHOPS 21114-ET	USA 74146865						
LEANINGHOUSE CLEARCUT 60020	USA 74188149						
LEANINGHOUSE CM 20229	USA 72237291						
LEANINGHOUSE CM 20240	USA 72237302						3
LEANINGHOUSE CM 20252-TW	USA 72237314						
LEANINGHOUSE CM 20253-TW	USA 72237315						
LEANINGHOUSE CM 20254	USA 72237316						
LEANINGHOUSE CM 20256	USA 72237318						
LEANINGHOUSE CM 20258	USA 72237320						3
LEANINGHOUSE CM 20261	USA 72237323						
LEANINGHOUSE CM 20262	USA 72237324						3
LEANINGHOUSE CM 20344	USA 72237406						
LEANINGHOUSE CM 20437	USA 72237499						
LEANINGHOUSE CM 20438	USA 72237500						
LEANINGHOUSE CM 20447	USA 72237509						
LEANINGHOUSE CM 20455	USA 72237517						
LEANINGHOUSE CM 20464	USA 72237526						
LEANINGHOUSE CM 20465	USA 72237527						
LEANINGHOUSE CM 20486	USA 72237548						
LEANINGHOUSE CM 20491	USA 72237553						
LEANINGHOUSE CM 20493	USA 72237555		C				
LEANINGHOUSE CM 20494	USA 72237556						
LEANINGHOUSE CM 20496	USA 72237558						
LEANINGHOUSE CM 20500	USA 72237562						
LEANINGHOUSE CM 20502	USA 72958019						
LEANINGHOUSE CM 20506	USA 72958023						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE COLTP ROSE-RED	USA 142215883						1
LEANINGHOUSE CRANK 21661-TW	840003129136217						
LEANINGHOUSE CRANK 21738-ET	840003129136294						
LEANINGHOUSE CRANK 21745-ET	840003129136301						
LEANINGHOUSE CRANK 21748-ET	840003129136304						
LEANINGHOUSE CRANK 21750-ET	840003129136306						
LEANINGHOUSE CRANK 21752-ET	840003129136308						
LEANINGHOUSE CRISP 21540	840003129136096						
LEANINGHOUSE D 21066-RED-ET	USA 74146817						
LEANINGHOUSE DAMARIAS 21581	840003129136137						
LEANINGHOUSE DAMRS 21131-ET	USA 74146882						
LEANINGHOUSE DAMRS 21687-ET	840003129136243						
LEANINGHOUSE DAMRS 21912-ET	840003130431883						
LEANINGHOUSE DAMRS 21924-ET	840003130431895						
LEANINGHOUSE DAMRS 21927-ET	840003130431898						
LEANINGHOUSE DAMRS 21928-ET	840003130431899						
LEANINGHOUSE DAMRS 21929-ET	840003130431900						
LEANINGHOUSE DAMRS 21933-ET	840003130431904						
LEANINGHOUSE DAMRS 22004-ET	840003131992748						
LEANINGHOUSE DAMRS 22005-ET	840003131992749						
LEANINGHOUSE DAMRS 22006-ET	840003131992750						
LEANINGHOUSE DAMRS 22007-ET	840003131992751						
LEANINGHOUSE DAMRS 22009-ET	840003131992753						
LEANINGHOUSE DAMRS 22011-ET	840003131992755						
LEANINGHOUSE DAYSTAR 20266	USA 72237328						3
LEANINGHOUSE DEFENDER 20914	USA 74146665						
LEANINGHOUSE DEFENDER 20918	USA 74146669						
LEANINGHOUSE DEFENDER 20972	USA 74146723						
LEANINGHOUSE DEFENDER 20982	USA 74146733						
LEANINGHOUSE DEFENDER 21049	USA 74146800						
LEANINGHOUSE DEFENDER 21212	USA 74146963						
LEANINGHOUSE DEFENDER 21224	USA 74146975						
LEANINGHOUSE DEFENDER 21239	USA 74146990						
LEANINGHOUSE DEFENDR 21017	USA 74146768						
LEANINGHOUSE DELTA 22027-ET	840003131992771						
LEANINGHOUSE DELTA 22028-ET	840003131992772						
LEANINGHOUSE DELTA 22029-ET	840003131992773						
LEANINGHOUSE DELTA 22031-ET	840003131992775						
LEANINGHOUSE DELTA 22059-ET	840003131992803						
LEANINGHOUSE DELTA 22084-ET	840003131992828						
LEANINGHOUSE DELTA 22085-ET	840003131992829						
LEANINGHOUSE DELTA 22086-ET	840003131992830						
LEANINGHOUSE DELTA 22087-ET	840003131992831						
LEANINGHOUSE DELTA 22088-ET	840003131992832						
LEANINGHOUSE DELTA 22092-ET	840003131992836						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE DELTA 22098-ET	840003131992842						
LEANINGHOUSE DELTA 22099-ET	840003131992843						
LEANINGHOUSE DELTA 22102-ET	840003131992846						
LEANINGHOUSE DELTA 22104-ET	840003131992848						
LEANINGHOUSE DELTA 22108-ET	840003131992852						
LEANINGHOUSE DELTA 22112-ET	840003131992856						
LEANINGHOUSE DELTA 22114-ET	840003131992858						
LEANINGHOUSE DELTA 22116-ET	840003131992860						
LEANINGHOUSE DEMAN 21389	840003129135945						
LEANINGHOUSE DENALI 20744	USA 73450262		C				3
LEANINGHOUSE DESHAUN 21582	840003129136138						
LEANINGHOUSE DESHAUN 21637	840003129136193						
LEANINGHOUSE DESHAUN 21638	840003129136194						
LEANINGHOUSE DESHAUN 21676	840003129136232						
LEANINGHOUSE DESHN 21663-TW	840003129136219						
LEANINGHOUSE DFNDR 21087-ET	USA 74146838						
LEANINGHOUSE DIGGER 20587	USA 72958104						
LEANINGHOUSE DIGGER 20689	USA 72958206						3
LEANINGHOUSE DISTR 21123-ET	USA 74146874						
LEANINGHOUSE DMARS 21692-ET	840003129136248						
LEANINGHOUSE DMARS 21693-ET	840003129136249						
LEANINGHOUSE DMARS 21696-ET	840003129136252						
LEANINGHOUSE DMARS 21701-ET	840003129136257						
LEANINGHOUSE DOM 20376	USA 72237438						
LEANINGHOUSE DOM 20430	USA 72237492						
LEANINGHOUSE DOM 20516	USA 72958033						
LEANINGHOUSE DOM 20519	USA 72958036						
LEANINGHOUSE DOM 20530	USA 72958047						
LEANINGHOUSE DOM 20593	USA 72958110						
LEANINGHOUSE DOM 20595	USA 72958112						
LEANINGHOUSE DOM 20597	USA 72958114						
LEANINGHOUSE DOM 20598	USA 72958115						
LEANINGHOUSE DOM 20601	USA 72958118						
LEANINGHOUSE DOM 20606	USA 72958123						
LEANINGHOUSE DOM 20611	USA 72958128						
LEANINGHOUSE DOM 20612	USA 72958129						1
LEANINGHOUSE DOM 20624	USA 72958141						
LEANINGHOUSE DOM 20647	USA 72958164						
LEANINGHOUSE DOM 20664	USA 72958181						
LEANINGHOUSE DOM 20665	USA 72958182						
LEANINGHOUSE DOM 20672	USA 72958189						3
LEANINGHOUSE DOM 20701	USA 73450219						
LEANINGHOUSE DOM 20703	USA 73450221						
LEANINGHOUSE DOM 20724	USA 73450242						
LEANINGHOUSE DOM 20726	USA 73450244						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE DOM 20727	USA 73450245						
LEANINGHOUSE DOM 20739	USA 73450257						
LEANINGHOUSE DOM 20765	USA 73450283						
LEANINGHOUSE DOM 20769	USA 73450287						
LEANINGHOUSE DOM 20775	USA 73450293						
LEANINGHOUSE DOM 20781	USA 73450299						
LEANINGHOUSE DOM 20784	USA 73450302						
LEANINGHOUSE DOM 20785	USA 73450303						
LEANINGHOUSE DOM 20790	USA 73450308						
LEANINGHOUSE DOM 20821	USA 73450339					C	
LEANINGHOUSE DOM 20825	USA 73450343						
LEANINGHOUSE DOM 20833	USA 73450351						
LEANINGHOUSE DOM 20912	USA 74146663						3
LEANINGHOUSE DOM 60003	USA 74188132						
LEANINGHOUSE DOM 60004	USA 74188133						
LEANINGHOUSE DOM 60007	USA 74188136					C	
LEANINGHOUSE DOM 60008	USA 74188137						
LEANINGHOUSE DOM 60015	USA 74188144						
LEANINGHOUSE DOMAIN 20166	USA 72237228						
LEANINGHOUSE DOMAIN 20173	USA 72237235						
LEANINGHOUSE DOMAIN 20230	USA 72237292						
LEANINGHOUSE DOMAIN 20232	USA 72237294						
LEANINGHOUSE DOMAIN 20635	USA 72958152						
LEANINGHOUSE DRACO 22097-ET	840003131992841						1
LEANINGHOUSE DRACO 22101-ET	840003131992845						
LEANINGHOUSE DRACO 22103-ET	840003131992847						1
LEANINGHOUSE DRING 22109-ET	840003131992853						
LEANINGHOUSE DRNGO 21457	840003129136013						
LEANINGHOUSE DRSOP 21931-ET	840003130431902	C					
LEANINGHOUSE DRSOP 21932-ET	840003130431903	C					
LEANINGHOUSE DRSOP 21934-ET	840003130431905	C				C	
LEANINGHOUSE DRSOP 21937-ET	840003130431908	C				C	
LEANINGHOUSE DRSOP 21938-ET	840003130431909						
LEANINGHOUSE DRSOP 21940-ET	840003130431911	C				C	
LEANINGHOUSE DRSOP 21946-ET	840003130431917						
LEANINGHOUSE DRSOP 21949-ET	840003130431920					C	
LEANINGHOUSE DRSOP 21953-ET	840003130431924						
LEANINGHOUSE DRSOP 21962-ET	840003130431933	C					
LEANINGHOUSE DRSOP 21968-ET	840003130431939						
LEANINGHOUSE DRSOP 21970-ET	840003130431941	C				C	
LEANINGHOUSE DURHAM 9021	USA 73565332						
LEANINGHOUSE DWAYNE 60002	USA 74188131						
LEANINGHOUSE E 22046-RED-ET	840003131992790						
LEANINGHOUSE E 22052-RED-ET	840003131992796						
LEANINGHOUSE EARNHRDT 20679	USA 72958196						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE ELECTION 21402	840003129135958						
LEANINGHOUSE EN 21802-ET	840003130431773						1
LEANINGHOUSE ENTLE 21674	840003129136230						
LEANINGHOUSE ENTLE 21807	840003130431778						
LEANINGHOUSE ENTLE 22042-ET	840003131992786						
LEANINGHOUSE ENTTL 22054-ET	840003131992798						
LEANINGHOUSE ENTTL 22055-ET	840003131992799						
LEANINGHOUSE ENTTL 22060-ET	840003131992804						
LEANINGHOUSE EPIC 20199	USA 72237261						
LEANINGHOUSE EPIC 20241	USA 72237303						
LEANINGHOUSE EPIC 20249	USA 72237311						
LEANINGHOUSE EVENT 21690-ET	840003129136246						
LEANINGHOUSE EVENT 21691-ET	840003129136247						
LEANINGHOUSE EVENT 21778-ET	840003129136334						
LEANINGHOUSE EVENT 21841-ET	840003130431812						
LEANINGHOUSE EVENT 21944-ET	840003130431915						
LEANINGHOUSE EXACT 20104	USA 72237166						
LEANINGHOUSE EXPLODE 20117	USA 72237179						
LEANINGHOUSE EXPLODE 20125	USA 72237187						
LEANINGHOUSE G PP 20776-RED	USA 73450294		C				
LEANINGHOUSE GAMBLER 21519	840003129136075						
LEANINGHOUSE GAMBLER 21533	840003129136089						
LEANINGHOUSE GREENDAY 20850	USA 73450368						
LEANINGHOUSE H HBULL 21435	840003129135991						
LEANINGHOUSE H HBULL 21618	840003129136174						
LEANINGHOUSE HALGN 20802-ET	USA 73450320						
LEANINGHOUSE HALGN 21048-ET	USA 74146799						
LEANINGHOUSE HALGN 21078-ET	USA 74146829						
LEANINGHOUSE HALGN 21084-ET	USA 74146835						
LEANINGHOUSE HALGN 21086-ET	USA 74146837						
LEANINGHOUSE HALGN 21099-TW	USA 74146850						
LEANINGHOUSE HALGN 21337-ET	840003129135893						
LEANINGHOUSE HALGN 21801-ET	840003130431772						
LEANINGHOUSE HALGN 21803-ET	840003130431774						
LEANINGHOUSE HALOGEN 20926	USA 74146677						
LEANINGHOUSE HALOGEN 20960	USA 74146711						
LEANINGHOUSE HALOGEN 21046	USA 74146797						
LEANINGHOUSE HALOGEN 21284	USA 74147035						
LEANINGHOUSE HALOGEN 21313	840003129135869						
LEANINGHOUSE HALOGEN 21639	840003129136195						
LEANINGHOUSE HALOGEN 21641	840003129136197						
LEANINGHOUSE HANGT 22122-ET	840003131992866						
LEANINGHOUSE HANGT 22125-ET	840003131992869						
LEANINGHOUSE HANGT 22129-ET	840003131992873						
LEANINGHOUSE HEDLINR 20678	USA 72958195						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE HEDLINR 20803	USA 73450321						
LEANINGHOUSE HLBRT 22033-ET	840003131992777						
LEANINGHOUSE HLBRT 22034-ET	840003131992778						
LEANINGHOUSE HLBRT 22035-ET	840003131992779						
LEANINGHOUSE HLBRT 22036-ET	840003131992780						
LEANINGHOUSE JACKSON 20205	USA 72237267						
LEANINGHOUSE JACKSON 20211	USA 72237273						
LEANINGHOUSE JACKSON 20213	USA 72237275						
LEANINGHOUSE JEDI 22095-ET	840003131992839						
LEANINGHOUSE JEDI 22115-ET	840003131992859						
LEANINGHOUSE JEDI 22117-ET	840003131992861						
LEANINGHOUSE JEDI 22119-ET	840003131992863					C	
LEANINGHOUSE JEDI 22120-ET	840003131992864						
LEANINGHOUSE JEDI 22123-ET	840003131992867					C	
LEANINGHOUSE JEDI 22128-ET	840003131992872					C	
LEANINGHOUSE JEDI 22131-ET	840003131992875					C	
LEANINGHOUSE JEEVES 9406	USA 73565341						
LEANINGHOUSE JOSPR 21578-TW	840003129136134						
LEANINGHOUSE JOSPR 21797-ET	840003129136353						
LEANINGHOUSE KBOY 21469-ET	840003129136025						
LEANINGHOUSE KGBOY 21109-ET	USA 74146860						1
LEANINGHOUSE KGBOY 21111-ET	USA 74146862						
LEANINGHOUSE KGBOY 21113-ET	USA 74146864						
LEANINGHOUSE KGBOY 21119-ET	USA 74146870						
LEANINGHOUSE KGBOY 21121-ET	USA 74146872						
LEANINGHOUSE KGBOY 21122-ET	USA 74146873						
LEANINGHOUSE KGBOY 21127-ET	USA 74146878						
LEANINGHOUSE KNGBY 21132-ET	USA 74146883						
LEANINGHOUSE KNGBY 21175-ET	USA 74146926						
LEANINGHOUSE KNGBY 21176-ET	USA 74146927						
LEANINGHOUSE KNGBY 21177-ET	USA 74146928						
LEANINGHOUSE KNGBY 21180-ET	USA 74146931						
LEANINGHOUSE KNGBY 21185-ET	USA 74146936						
LEANINGHOUSE KNGBY 21318-ET	840003129135874						
LEANINGHOUSE KNGBY 21324-ET	840003129135880						
LEANINGHOUSE KNGBY 21526-ET	840003129136082						
LEANINGHOUSE KNGBY 21856-ET	840003130431827						
LEANINGHOUSE KNGBY 21857-ET	840003130431828						
LEANINGHOUSE L 21067-RED-ET	USA 74146818						
LEANINGHOUSE L 21315-RED-ET	840003129135871						
LEANINGHOUSE LAUER 20109	USA 72237171						
LEANINGHOUSE LAVAMAN 20251	USA 72237313						1
LEANINGHOUSE LAVAMAN 20632	USA 72958149		C				3
LEANINGHOUSE LAVAMAN 20633	USA 72958150						
LEANINGHOUSE LEXOR 20235	USA 72237297						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE LEXOR 20244	USA 72237306						
LEANINGHOUSE LEXOR 20637	USA 72958154						
LEANINGHOUSE LEXSTAR 14182	USA 73421916						
LEANINGHOUSE LEXSTAR 20221	USA 72237283						
LEANINGHOUSE LIQD GLD 20910	USA 74146661						
LEANINGHOUSE LITHIUM 20495	USA 72237557						
LEANINGHOUSE LITHIUM 20504	USA 72958021						
LEANINGHOUSE LITHIUM 20505	USA 72958022						
LEANINGHOUSE LITHIUM 4469	USA 72479426						
LEANINGHOUSE LITHM 20655-ET	USA 72958172					C	
LEANINGHOUSE LITHM 21329-ET	840003129135885						
LEANINGHOUSE LITTLETN 21568	840003129136124						
LEANINGHOUSE LITTLETN 21570	840003129136126						3
LEANINGHOUSE LITTLETN 21590	840003129136146						
LEANINGHOUSE LITTLETN 21598	840003129136154						
LEANINGHOUSE LITTLETN 21620	840003129136176			C			
LEANINGHOUSE LITTLETN 21650	840003129136206						
LEANINGHOUSE LITTLTON 21556	840003129136112			C			
LEANINGHOUSE LITTLTON 21561	840003129136117					C	
LEANINGHOUSE LITTLTON 21584	840003129136140						
LEANINGHOUSE LOBSTER 20206	USA 72237268						1
LEANINGHOUSE LOTO 20636	USA 72958153						
LEANINGHOUSE LTHUM 20566-ET	USA 72958083						
LEANINGHOUSE LTHUM 20569-ET	USA 72958086						
LEANINGHOUSE LTHUM 20608-ET	USA 72958125						
LEANINGHOUSE LTMX 21295-ET	840003127943789						
LEANINGHOUSE LTTMX 21160-ET	USA 74146911						
LEANINGHOUSE LTTMX 21161-ET	USA 74146912						
LEANINGHOUSE LTTMX 21162-ET	USA 74146913						
LEANINGHOUSE LTTMX 21163-ET	USA 74146914						
LEANINGHOUSE LTTMX 21165-ET	USA 74146916						
LEANINGHOUSE LTTMX 21166-ET	USA 74146917						
LEANINGHOUSE LTTMX 21167-ET	USA 74146918						
LEANINGHOUSE LTTMX 21168-ET	USA 74146919						
LEANINGHOUSE LTTMX 21169-ET	USA 74146920						
LEANINGHOUSE LTTMX 21171-ET	USA 74146922						
LEANINGHOUSE LTTMX 21172-ET	USA 74146923						
LEANINGHOUSE LTTMX 21173-ET	USA 74146924						
LEANINGHOUSE LTTMX 21174-ET	USA 74146925						
LEANINGHOUSE LTTMX 21178-ET	USA 74146929						
LEANINGHOUSE LTTMX 21204-ET	840003127943724						
LEANINGHOUSE MACK 21082-ET	USA 74146833						
LEANINGHOUSE MAGNESS 20216	USA 72237278					C	
LEANINGHOUSE MAGNUS 20196	USA 72237258						
LEANINGHOUSE MAGNUS 20201	USA 72237263						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE MAGNUS 20231	USA 72237293			C			
LEANINGHOUSE MAGNUS 20250	USA 72237312						
LEANINGHOUSE MAGNUS 20265	USA 72237327						
LEANINGHOUSE MANOMAN 20076	USA 72237138						
LEANINGHOUSE MARDI 21368	840003129135924						
LEANINGHOUSE MARDI 21373	840003129135929						
LEANINGHOUSE MARDI 21376	840003129135932						
LEANINGHOUSE MARDI G 21430	840003129135986						
LEANINGHOUSE MARVELOS 20674	USA 72958191						
LEANINGHOUSE MASSEY 20369	USA 72237431						
LEANINGHOUSE MASSEY 20373	USA 72237435						
LEANINGHOUSE MASSEY 20382	USA 72237444						
LEANINGHOUSE MASSEY 20399	USA 72237461						
LEANINGHOUSE MASSEY 20402	USA 72237464						1
LEANINGHOUSE MASSEY 20403	USA 72237465	C					
LEANINGHOUSE MASSEY 20412	USA 72237474						
LEANINGHOUSE MASSEY 20416	USA 72237478						
LEANINGHOUSE MASSEY 20417	USA 72237479						
LEANINGHOUSE MASSEY 20422	USA 72237484						
LEANINGHOUSE MASSEY 20436	USA 72237498						
LEANINGHOUSE MASSEY 20801	USA 73450319					C	
LEANINGHOUSE MASSEY 20813	USA 73450331						
LEANINGHOUSE MASSEY 20814	USA 73450332						
LEANINGHOUSE MASSEY 20816	USA 73450334						
LEANINGHOUSE MASSEY 20851	USA 73450369						
LEANINGHOUSE MASSEY 20853	USA 73450371						3
LEANINGHOUSE MASSEY 20859	USA 73450377						
LEANINGHOUSE MASSEY 20860	USA 73450378						
LEANINGHOUSE MASSEY 20864	USA 73450382						
LEANINGHOUSE MASSEY 20870	USA 73450388						
LEANINGHOUSE MASSEY 20871	USA 73450389		C				
LEANINGHOUSE MASSEY 20874	USA 73450392						
LEANINGHOUSE MASSEY 20887	USA 73450405						
LEANINGHOUSE MASSEY 20889	USA 73450407					C	
LEANINGHOUSE MASSEY 20890	USA 73450408						
LEANINGHOUSE MASSEY 20922	USA 74146673			C			
LEANINGHOUSE MASSEY 20963	USA 74146714						3
LEANINGHOUSE MASSIVE 20613	USA 72958130						
LEANINGHOUSE MASSIVE 20736	USA 73450254						
LEANINGHOUSE MASSY 20367-TW	USA 72237429						
LEANINGHOUSE MASSY 20391-TW	USA 72237453						
LEANINGHOUSE MASSY 20892-TW	USA 73450410			C			
LEANINGHOUSE MASSY 20893-TW	USA 73450411			C			
LEANINGHOUSE MASTER 20448	USA 72237510					C	
LEANINGHOUSE MATT 22204	840003131992948						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE MATTEUS 20931	USA 74146682						
LEANINGHOUSE MAUI 20284-ET	USA 72237346						1
LEANINGHOUSE MCCUTCHN 20420	USA 72237482						
LEANINGHOUSE MCCUTCHN 20834	USA 73450352						
LEANINGHOUSE MCTHN 21683-ET	840003129136239						
LEANINGHOUSE MCTHN 21684-ET	840003129136240						
LEANINGHOUSE MCTHN 21685-ET	840003129136241						
LEANINGHOUSE MCTHN 21686-ET	840003129136242						
LEANINGHOUSE MCTHN 21688-ET	840003129136244						
LEANINGHOUSE MCUTCHEN 20390	USA 72237452						
LEANINGHOUSE MCUTCHEN 20755	USA 73450273						
LEANINGHOUSE MCUTCHEN 20764	USA 73450282						
LEANINGHOUSE MIDNIGHT 20896	USA 73450414						
LEANINGHOUSE MIDNIGHT 21268	USA 74147019						
LEANINGHOUSE MIDNT 21328-ET	840003129135884						
LEANINGHOUSE MILSON 21409	840003129135965						3
LEANINGHOUSE MILSON 21411	840003129135967						
LEANINGHOUSE MILSON 21444	840003129136000						
LEANINGHOUSE MN 21950-TW-ET	840003130431921						
LEANINGHOUSE MN 21951-TW-ET	840003130431922						
LEANINGHOUSE MNTRS 21525-ET	840003129136081						
LEANINGHOUSE MNTRS 21538-TW	840003129136094						
LEANINGHOUSE MNTRS 21646-TW	840003129136202						
LEANINGHOUSE MNTRS 21647-TW	840003129136203						
LEANINGHOUSE MNTRS 21850-ET	840003130431821						
LEANINGHOUSE MNTRS 21851-ET	840003130431822						
LEANINGHOUSE MNTRS 21854-ET	840003130431825						
LEANINGHOUSE MNTRS 21862-ET	840003130431833						
LEANINGHOUSE MNTRS 21864-ET	840003130431835						
LEANINGHOUSE MNTRS 21865-ET	840003130431836						
LEANINGHOUSE MNTRS 21866-ET	840003130431837						
LEANINGHOUSE MNTRS 21867-ET	840003130431838						
LEANINGHOUSE MNTRS 21872-ET	840003130431843						
LEANINGHOUSE MNTRS 22030-ET	840003131992774						
LEANINGHOUSE MNTRY 21124-ET	USA 74146875						
LEANINGHOUSE MNTRY 21126-ET	USA 74146877						
LEANINGHOUSE MNTRY 21128-ET	USA 74146879						
LEANINGHOUSE MNTRY 21129-ET	USA 74146880						
LEANINGHOUSE MNTRY 21130-ET	USA 74146881						
LEANINGHOUSE MNTRY 21138-ET	USA 74146889						
LEANINGHOUSE MNTRY 21184-ET	USA 74146935						
LEANINGHOUSE MNTRY 21187-ET	USA 74146938						
LEANINGHOUSE MNTRY 21189-ET	USA 74146940						
LEANINGHOUSE MNTRY 21193-ET	USA 74146944						
LEANINGHOUSE MNTRY 21198-ET	USA 74146949						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

115

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE MNTRY 21199-ET	USA 74146950						
LEANINGHOUSE MNTRY 21651-TW	840003129136207						
LEANINGHOUSE MNTRY 21682-ET	840003129136238						
LEANINGHOUSE MNTRY 21709-ET	840003129136265						
LEANINGHOUSE MNTRY 21718-ET	840003129136274						
LEANINGHOUSE MNTRY 21720-ET	840003129136276						
LEANINGHOUSE MNTRY 21722-ET	840003129136278						
LEANINGHOUSE MNTRY 21758-ET	840003129136314						
LEANINGHOUSE MNTRY 21880-ET	840003130431851						
LEANINGHOUSE MNTRY 21884-ET	840003130431855						
LEANINGHOUSE MNTRY 21886-ET	840003130431857						
LEANINGHOUSE MNTRY 21887-ET	840003130431858						
LEANINGHOUSE MNTRY 21889-ET	840003130431860						
LEANINGHOUSE MNTRY 21890-ET	840003130431861						
LEANINGHOUSE MNTRY 21894-ET	840003130431865						
LEANINGHOUSE MNTRY 21898-ET	840003130431869						
LEANINGHOUSE MNTRY 21900-ET	840003130431871						
LEANINGHOUSE MNTRY 21901-ET	840003130431872						
LEANINGHOUSE MNTRY 21904-ET	840003130431875						
LEANINGHOUSE MNTRY 21913-ET	840003130431884						
LEANINGHOUSE MNTRY 21936-ET	840003130431907						
LEANINGHOUSE MOGUL 20257	USA 72237319						
LEANINGHOUSE MOGUL 20298	USA 72237360						
LEANINGHOUSE MOGUL 20389	USA 72237451						
LEANINGHOUSE MOGUL 20630	USA 72958147						
LEANINGHOUSE MOGUL 20653	USA 72958170						
LEANINGHOUSE MOGUL 20659	USA 72958176						
LEANINGHOUSE MOGUL 20686	USA 72958203						
LEANINGHOUSE MOGUL 20730	USA 73450248						
LEANINGHOUSE MOGUL 20748	USA 73450266						
LEANINGHOUSE MOGUL 20778	USA 73450296						
LEANINGHOUSE MOGUL 20792	USA 73450310						
LEANINGHOUSE MOGUL 20794	USA 73450312						
LEANINGHOUSE MOGUL 20796	USA 73450314						
LEANINGHOUSE MOGUL 20800	USA 73450318					C	
LEANINGHOUSE MOGUL 20828	USA 73450346						
LEANINGHOUSE MOGUL 20877	USA 73450395						
LEANINGHOUSE MOGUL 20879	USA 73450397						
LEANINGHOUSE MOGUL 20911	USA 74146662						
LEANINGHOUSE MOGUL 21413	840003129135969			C			
LEANINGHOUSE MOGUL 21439	840003129135995	C					
LEANINGHOUSE MOGUL 21445	840003129136001						
LEANINGHOUSE MOGUL 21448	840003129136004						
LEANINGHOUSE MOGUL 21450	840003129136006						
LEANINGHOUSE MOGUL 21456	840003129136012						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE MOGUL 21465	840003129136021						
LEANINGHOUSE MOGUL 21499	840003129136055						
LEANINGHOUSE MOGUL 21512	840003129136068						1
LEANINGHOUSE MOGUL 21520	840003129136076						
LEANINGHOUSE MOGUL 21523	840003129136079						
LEANINGHOUSE MOGUL 21558	840003129136114						
LEANINGHOUSE MOGUL 21607	840003129136163						
LEANINGHOUSE MOGUL 21673	840003129136229						
LEANINGHOUSE MOGUL 21806	840003130431777						
LEANINGHOUSE MOGUL DAWN	USA 142635128					C	
LEANINGHOUSE MON LALA 4788	840003123835428						
LEANINGHOUSE MONTEREY 21357	840003129135913					C	
LEANINGHOUSE MONTEREY 21622	840003129136178						
LEANINGHOUSE MONTEREY 21652	840003129136208						
LEANINGHOUSE MONTEREY 21666	840003129136222						
LEANINGHOUSE MONTEREY 21668	840003129136224						1
LEANINGHOUSE MONTROSS 21482	840003129136038						
LEANINGHOUSE MONTROSS 21484	840003129136040	C					
LEANINGHOUSE MONTROSS 21485	840003129136041			C			
LEANINGHOUSE MONTROSS 21486	840003129136042						
LEANINGHOUSE MONTROSS 21487	840003129136043						
LEANINGHOUSE MONTROSS 21491	840003129136047						
LEANINGHOUSE MONTROSS 21492	840003129136048						
LEANINGHOUSE MONTROSS 21495	840003129136051						
LEANINGHOUSE MONTROSS 21501	840003129136057					C	
LEANINGHOUSE MONTROSS 21504	840003129136060						1
LEANINGHOUSE MONTROSS 21506	840003129136062						
LEANINGHOUSE MONTROSS 21513	840003129136069						
LEANINGHOUSE MONTROSS 21514	840003129136070						
LEANINGHOUSE MONTROSS 21516	840003129136072						
LEANINGHOUSE MONTROSS 21527	840003129136083						
LEANINGHOUSE MONTROSS 21532	840003129136088						
LEANINGHOUSE MONTROSS 21536	840003129136092						
LEANINGHOUSE MONTROSS 21537	840003129136093						
LEANINGHOUSE MONTROSS 21542	840003129136098						
LEANINGHOUSE MONTROSS 21545	840003129136101						
LEANINGHOUSE MONTROSS 21548	840003129136104						
LEANINGHOUSE MONTROSS 21549	840003129136105						
LEANINGHOUSE MONTROSS 21551	840003129136107						
LEANINGHOUSE MONTROSS 21552	840003129136108						
LEANINGHOUSE MONTROSS 21553	840003129136109						
LEANINGHOUSE MONTROSS 21560	840003129136116						
LEANINGHOUSE MONTROSS 21569	840003129136125						
LEANINGHOUSE MONTROSS 21573	840003129136129						
LEANINGHOUSE MONTROSS 21575	840003129136131						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

117

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE MONTROSS 21576	840003129136132						
LEANINGHOUSE MONTROSS 21588	840003129136144						
LEANINGHOUSE MONTROSS 21619	840003129136175						
LEANINGHOUSE MONTROSS 21645	840003129136201						
LEANINGHOUSE MONTROSS 21648	840003129136204						
LEANINGHOUSE MONTROSS 21649	840003129136205						
LEANINGHOUSE MONTROSS 21658	840003129136214						
LEANINGHOUSE MONTROSS 21662	840003129136218						
LEANINGHOUSE MONTROSS 21665	840003129136221						
LEANINGHOUSE MORGAN 20770	USA 73450288					C	
LEANINGHOUSE NMUNO 21051-ET	USA 74146802	C					
LEANINGHOUSE NMUNO 21093-ET	USA 74146844	C					
LEANINGHOUSE O 21104-RED-ET	USA 74146855						1
LEANINGHOUSE O 21105-RED-ET	USA 74146856						1
LEANINGHOUSE O 21497-RED-TW	840003129136053						
LEANINGHOUSE O 21498-RED-TW	840003129136054						
LEANINGHOUSE O 21907-RED-ET	840003130431878						1
LEANINGHOUSE OBSERVER 20165	USA 72237227						
LEANINGHOUSE OBSERVER 20119	USA 72237181						
LEANINGHOUSE OBSERVER 20123	USA 72237185						
LEANINGHOUSE OBSERVER 20130	USA 72237192						
LEANINGHOUSE OBSERVER 20224	USA 72237286						
LEANINGHOUSE OCFST 21903-ET	840003130431874						
LEANINGHOUSE OCFST 21922-ET	840003130431893						
LEANINGHOUSE OCTFS 21776-ET	840003129136332					C	
LEANINGHOUSE OCTFS 21876-ET	840003130431847						
LEANINGHOUSE OCTFS 21882-ET	840003130431853						
LEANINGHOUSE OCTFS 21888-ET	840003130431859						
LEANINGHOUSE OCTFS 21893-ET	840003130431864						
LEANINGHOUSE OCTFS 21895-ET	840003130431866						
LEANINGHOUSE OCTVN 21730-ET	840003129136286						
LEANINGHOUSE OLIM 21493	840003129136049						
LEANINGHOUSE OLMPN 21920-ET	840003130431891						
LEANINGHOUSE OLMPN 21952-ET	840003130431923						1
LEANINGHOUSE OLMPN 21955-ET	840003130431926						
LEANINGHOUSE OLYMP 21291-ET	840003125613906						
LEANINGHOUSE OLYMP 21530-TW	840003129136086						
LEANINGHOUSE OLYMP 21531-TW	840003129136087						
LEANINGHOUSE OLYMPIN 21502	840003129136058						
LEANINGHOUSE OLYMPIN 21541	840003129136097						
LEANINGHOUSE OLYPN 21106-ET	USA 74146857						1
LEANINGHOUSE OLYPN 21978-ET	840003130431949						
LEANINGHOUSE P 22010-RED-ET	840003131992754						
LEANINGHOUSE P 22018-RED-ET	840003131992762						
LEANINGHOUSE PAT 21656	840003129136212						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

118

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE PAT 21679	840003129136235						
LEANINGHOUSE PAT 22014-ET	840003131992758						
LEANINGHOUSE PAT-R 22021-ET	840003131992765						
LEANINGHOUSE PAYTON 21475	840003129136031						
LEANINGHOUSE PAYTON 21500	840003129136056		C				
LEANINGHOUSE PAYTON 21503	840003129136059						
LEANINGHOUSE PAYTON 21505	840003129136061						
LEANINGHOUSE PAYTON 21507	840003129136063						
LEANINGHOUSE PAYTON 21543	840003129136099						
LEANINGHOUSE PAYTON 21544	840003129136100			C			
LEANINGHOUSE PAYTON 21546	840003129136102						
LEANINGHOUSE PAYTON 21562	840003129136118						
LEANINGHOUSE PAYTON 21566	840003129136122						
LEANINGHOUSE PAYTON 21567	840003129136123						
LEANINGHOUSE PAYTON 21571	840003129136127						
LEANINGHOUSE PAYTON 21577	840003129136133						1
LEANINGHOUSE PAYTON 21655	840003129136211						3
LEANINGHOUSE PAYTON 21657	840003129136213						
LEANINGHOUSE PAYTON 21664	840003129136220						
LEANINGHOUSE PBALL 21705-ET	840003129136261						
LEANINGHOUSE PBALL 21710-ET	840003129136266						
LEANINGHOUSE PBALL 21711-ET	840003129136267						
LEANINGHOUSE PBALL 21863-ET	840003130431834						
LEANINGHOUSE PET 4453	USA 72479410						
LEANINGHOUSE PETRONE 20267	USA 72237329						
LEANINGHOUSE PETRONE 20462	USA 72237524						
LEANINGHOUSE PETY 21557	840003129136113						1
LEANINGHOUSE PLATINUM 20837	USA 73450355						
LEANINGHOUSE PLATINUM 20933	USA 74146684					C	
LEANINGHOUSE PLTNM 21332-ET	840003129135888			C			
LEANINGHOUSE PREDESTN 20789	USA 73450307						3
LEANINGHOUSE PRIME 21250	USA 74147001						
LEANINGHOUSE PROMO 20953	USA 74146704						
LEANINGHOUSE PROMO 20970	USA 74146721					C	
LEANINGHOUSE PROMO 20973	USA 74146724						
LEANINGHOUSE PROMO 20975	USA 74146726						1
LEANINGHOUSE PROMO 20977	USA 74146728					C	
LEANINGHOUSE PROMO 20990	USA 74146741						
LEANINGHOUSE PROMO 20991	USA 74146742						
LEANINGHOUSE PROMO 20999	USA 74146750						
LEANINGHOUSE PROMO 21005	USA 74146756						
LEANINGHOUSE PROMO 21047	USA 74146798						
LEANINGHOUSE PROMO 21062	USA 74146813						
LEANINGHOUSE PROMO 21070	USA 74146821						
LEANINGHOUSE PROMO 21075	USA 74146826	C					

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

119

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE PROMO 21214	USA 74146965						
LEANINGHOUSE PROMO 21220-TW	USA 74146971			C			3
LEANINGHOUSE PROMO 21221-TW	USA 74146972						3
LEANINGHOUSE PROMO 21229	USA 74146980						
LEANINGHOUSE PROMO 21230	USA 74146981						
LEANINGHOUSE PROMO 21232	USA 74146983						
LEANINGHOUSE PROMO 21243	USA 74146994						
LEANINGHOUSE PROMO 21246	USA 74146997						
LEANINGHOUSE PROMO 21253	USA 74147004						
LEANINGHOUSE PROMO 21260	USA 74147011						
LEANINGHOUSE PROMO 21276	USA 74147027						
LEANINGHOUSE PROMO 21277	USA 74147028						
LEANINGHOUSE PROMO 21289	USA 74147040						
LEANINGHOUSE PROMO 21305	840003129135861						
LEANINGHOUSE PROMO 21343	840003129135899						
LEANINGHOUSE PROMO 21356	840003129135912						
LEANINGHOUSE PROMO 21367	840003129135923						
LEANINGHOUSE PROMO 21377	840003129135933						
LEANINGHOUSE PROMO 60023	USA 74188152						
LEANINGHOUSE PROMO 60024	USA 74188153						
LEANINGHOUSE PROMO 60025	USA 74188154						
LEANINGHOUSE PROMO 60028	USA 74188157						
LEANINGHOUSE PROMO 60035	USA 74188164			C			
LEANINGHOUSE PROMO 60036	USA 74188165						
LEANINGHOUSE PROMO 60039	USA 74188168						
LEANINGHOUSE PROMO 60041-TW	USA 74188170						
LEANINGHOUSE PROMO 60042	USA 74188171						
LEANINGHOUSE PROMO 60043	USA 74188172						
LEANINGHOUSE PROMO 60045-TW	USA 74188174						
LEANINGHOUSE PROMO 60046-TW	USA 74188175						
LEANINGHOUSE PROMO 60048	USA 74188177	C					
LEANINGHOUSE PROMO 60050	USA 74188179						
LEANINGHOUSE PROMO 60051	USA 74188180						
LEANINGHOUSE PROMO 60052	USA 74188181						
LEANINGHOUSE PROMO 60053	USA 74188182			C			
LEANINGHOUSE PROMO 60054	USA 74188183						
LEANINGHOUSE PROMO 60060	USA 74188189					C	
LEANINGHOUSE PROMO 60061	USA 74188190						
LEANINGHOUSE PROMO 60062	USA 74188191						
LEANINGHOUSE PROMO 60063	USA 74188192						
LEANINGHOUSE PROMO 60065	USA 74188194						
LEANINGHOUSE PROMO 60067	USA 74188196						
LEANINGHOUSE PROMO 60068-TW	USA 74188197						
LEANINGHOUSE PROMO 60069-TW	USA 74188198						
LEANINGHOUSE PROMO 60070	USA 74188199						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

120

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE PRSTN 20959-ET	USA 74146710						3
LEANINGHOUSE PRSTN 20980-ET	USA 74146731						3
LEANINGHOUSE PRSTN 21065-ET	USA 74146816						
LEANINGHOUSE PRSTN 21071-ET	USA 74146822						
LEANINGHOUSE PRSTN 21090-ET	USA 74146841						3
LEANINGHOUSE R BABY BUBBLES	840003130800550						
LEANINGHOUSE RACE BRIT 4814	840003130800472						
LEANINGHOUSE RACER 21011	USA 74146762						
LEANINGHOUSE RACER 21021	USA 74146772			C			
LEANINGHOUSE RACER 21040	USA 74146791						
LEANINGHOUSE RACER 21057	USA 74146808						
LEANINGHOUSE RACER 21097	USA 74146848						
LEANINGHOUSE RACER 21235	USA 74146986						
LEANINGHOUSE RACER 21254	USA 74147005						
LEANINGHOUSE RACER 21256	USA 74147007						
LEANINGHOUSE RACER 21267	USA 74147018						
LEANINGHOUSE RACER 21279	USA 74147030						
LEANINGHOUSE RACER 21286	USA 74147037						
LEANINGHOUSE RACER 21310	840003129135866						
LEANINGHOUSE RACER 21321	840003129135877						
LEANINGHOUSE RACER 21323	840003129135879						
LEANINGHOUSE RACER 21327	840003129135883						
LEANINGHOUSE RACER 21347	840003129135903			C			
LEANINGHOUSE RACER 21362	840003129135918					C	
LEANINGHOUSE RACER 21364	840003129135920		C				
LEANINGHOUSE RACER 21369	840003129135925						
LEANINGHOUSE RACER 21385	840003129135941						
LEANINGHOUSE RACER 21386-TW	840003129135942						
LEANINGHOUSE RACER 21387-TW	840003129135943						
LEANINGHOUSE RACER 21392	840003129135948						
LEANINGHOUSE RACER 21393	840003129135949						
LEANINGHOUSE RACER 21401	840003129135957						1
LEANINGHOUSE RACER 21426	840003129135982						
LEANINGHOUSE RACER 21441	840003129135997						
LEANINGHOUSE RACER 21447	840003129136003						
LEANINGHOUSE RACER 21466	840003129136022						
LEANINGHOUSE RACER 21480	840003129136036						
LEANINGHOUSE RACER 21814	840003130431785						
LEANINGHOUSE RAY 20581	USA 72958098			C			
LEANINGHOUSE REFLCTOR 21559	840003129136115						
LEANINGHOUSE REFLCTOR 21565	840003129136121					C	
LEANINGHOUSE REFLCTR 21659	840003129136215						
LEANINGHOUSE REFLECTR 21631	840003129136187						
LEANINGHOUSE REFLECTR 21636	840003129136192						3
LEANINGHOUSE REFLECTR 21644	840003129136200						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

121

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE REFLECTR 21667	840003129136223						
LEANINGHOUSE REFLECTR 21671	840003129136227						
LEANINGHOUSE REFLECTR 21672	840003129136228						1
LEANINGHOUSE REFLECTR 21680	840003129136236						
LEANINGHOUSE REFLECTR 21804	840003130431775						
LEANINGHOUSE REFLECTR 21811	840003130431782						
LEANINGHOUSE RFCTR 21625-TW	840003129136181						
LEANINGHOUSE RFCTR 21629-TW	840003129136185						
LEANINGHOUSE RFLCTOR 21583	840003129136139					C	
LEANINGHOUSE RHODA 4413-ET	USA 72479370						
LEANINGHOUSE RUBICON 21564	840003129136120						
LEANINGHOUSE SALT 21596	840003129136152						
LEANINGHOUSE SALT 21818-ET	840003130431789						
LEANINGHOUSE SALT 22201-ET	840003131992945						
LEANINGHOUSE SALT 22203-ET	840003131992947						
LEANINGHOUSE SAVE 21589	840003129136145						
LEANINGHOUSE SAVE 21602	840003129136158						1
LEANINGHOUSE SHAKESPR 20882	USA 73450400			C			
LEANINGHOUSE SHAMROCK 20631	USA 72958148						
LEANINGHOUSE SHAMROK 20065	USA 72237127						
LEANINGHOUSE SHAMROK 20105	USA 72237167		C				
LEANINGHOUSE SHAMROK 20113	USA 72237175						
LEANINGHOUSE SHAMROK 20135	USA 72237197						
LEANINGHOUSE SHAMROK 20138	USA 72237200						
LEANINGHOUSE SHAMROK 20141	USA 72237203			C			
LEANINGHOUSE SHAMROK 20149	USA 72237211						
LEANINGHOUSE SHAMROK 20163	USA 72237225						
LEANINGHOUSE SHAMROK 20167	USA 72237229						
LEANINGHOUSE SHAMROK 20186	USA 72237248						
LEANINGHOUSE SHAN 20614	USA 72958131						
LEANINGHOUSE SHAN 20680	USA 72958197						
LEANINGHOUSE SHAN 20738	USA 73450256						
LEANINGHOUSE SHAN 20950-ET	USA 74146701						
LEANINGHOUSE SHAN 20967-ET	USA 74146718						
LEANINGHOUSE SHMRK 20618-ET	USA 72958135						
LEANINGHOUSE SILVER 1437-ET	840003130641942						
LEANINGHOUSE SILVER 21669	840003129136225						
LEANINGHOUSE SILVER 21805	840003130431776						
LEANINGHOUSE SILVER 424-ET	840003130641772						
LEANINGHOUSE SILVER 462-ET	840003130641818						
LEANINGHOUSE SILVER 473-ET	840003130641930						
LEANINGHOUSE SILVER 480-ET	840003130641926						
LEANINGHOUSE SILVER 484-ET	840003130641960						
LEANINGHOUSE SILVER 505-ET	840003130641989						
LEANINGHOUSE SILVER 524-ET	840003130641850						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE SILVER 550-ET	840003130641827						
LEANINGHOUSE SILVER 554-ET	840003130641647						
LEANINGHOUSE SILVER 562-ET	840003130641614						
LEANINGHOUSE SILVER 568-ET	840003130641687						
LEANINGHOUSE SILVER 574-ET	840003130641692						
LEANINGHOUSE SILVR 21139-ET	USA 74146890						
LEANINGHOUSE SILVR 21150-ET	USA 74146901						
LEANINGHOUSE SILVR 21154-ET	USA 74146905						
LEANINGHOUSE SILVR 21181-ET	USA 74146932						
LEANINGHOUSE SILVR 21186-ET	USA 74146937						
LEANINGHOUSE SILVR 21643-ET	840003129136199						
LEANINGHOUSE SILVR 21749-ET	840003129136305						
LEANINGHOUSE SILVR 21751-ET	840003129136307						
LEANINGHOUSE SILVR 21753-ET	840003129136309						
LEANINGHOUSE SILVR 21754-ET	840003129136310						
LEANINGHOUSE SILVR 21757-ET	840003129136313						
LEANINGHOUSE SILVR 21760-ET	840003129136316						
LEANINGHOUSE SILVR 21761-ET	840003129136317						
LEANINGHOUSE SILVR 21762-ET	840003129136318						
LEANINGHOUSE SILVR 21763-ET	840003129136319						
LEANINGHOUSE SILVR 21764-ET	840003129136320						
LEANINGHOUSE SILVR 21768-ET	840003129136324						
LEANINGHOUSE SILVR 21769-ET	840003129136325						
LEANINGHOUSE SILVR 21770-ET	840003129136326						
LEANINGHOUSE SILVR 21771-ET	840003129136327						
LEANINGHOUSE SILVR 21773-ET	840003129136329						
LEANINGHOUSE SILVR 21774-ET	840003129136330						
LEANINGHOUSE SILVR 21779-ET	840003129136335						
LEANINGHOUSE SILVR 21794-ET	840003129136350						
LEANINGHOUSE SILVR 21798-ET	840003129136354						
LEANINGHOUSE SILVR 21842-ET	840003130431813						
LEANINGHOUSE SILVR 21844-ET	840003130431815						
LEANINGHOUSE SILVR 21845-ET	840003130431816						
LEANINGHOUSE SILVR 21846-ET	840003130431817						
LEANINGHOUSE SILVR 21847-ET	840003130431818						
LEANINGHOUSE SILVR 21848-ET	840003130431819						
LEANINGHOUSE SILVR 21849-ET	840003130431820						
LEANINGHOUSE SILVR 21852-ET	840003130431823						
LEANINGHOUSE SILVR 21853-ET	840003130431824						
LEANINGHOUSE SILVR 21855-ET	840003130431826						
LEANINGHOUSE SILVR 21858-ET	840003130431829						
LEANINGHOUSE SILVR 21870-ET	840003130431841						
LEANINGHOUSE SILVR 21871-ET	840003130431842					1	
LEANINGHOUSE SILVR 21875-ET	840003130431846						
LEANINGHOUSE SILVR 21896-ET	840003130431867						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE SILVR 21899-ET	840003130431870						
LEANINGHOUSE SILVR 21908-ET	840003130431879						
LEANINGHOUSE SILVR 21909-ET	840003130431880						
LEANINGHOUSE SILVR 21910-ET	840003130431881						
LEANINGHOUSE SILVR 21915-ET	840003130431886						
LEANINGHOUSE SILVR 21917-ET	840003130431888						
LEANINGHOUSE SILVR 21918-ET	840003130431889						
LEANINGHOUSE SILVR 21919-ET	840003130431890						
LEANINGHOUSE SILVR 21921-ET	840003130431892						
LEANINGHOUSE SILVR 21923-ET	840003130431894						
LEANINGHOUSE SILVR 21926-ET	840003130431897						
LEANINGHOUSE SILVR 22003-ET	840003131992747						
LEANINGHOUSE SILVR 22062-ET	840003131992806						
LEANINGHOUSE SILVR 22063-ET	840003131992807						
LEANINGHOUSE SILVR 22065-ET	840003131992809						
LEANINGHOUSE SILVR 22066-ET	840003131992810						
LEANINGHOUSE SILVR 22070-ET	840003131992814						
LEANINGHOUSE SILVR 22071-ET	840003131992815						
LEANINGHOUSE SILVR 22209-ET	840003131992953						
LEANINGHOUSE SNOWMOBL 20604	USA 72958121						
LEANINGHOUSE SPARK 21869-ET	840003130431840						
LEANINGHOUSE SPARK 21878-ET	840003130431849						
LEANINGHOUSE SPARK 21911-ET	840003130431882						
LEANINGHOUSE SPRNG 22015-ET	840003131992759						
LEANINGHOUSE SPRNG 22022-ET	840003131992766						
LEANINGHOUSE SPRNG 22040-ET	840003131992784						
LEANINGHOUSE SPRNG 22041-ET	840003131992785						
LEANINGHOUSE SPRNG 22044-ET	840003131992788						
LEANINGHOUSE SPRNG 22047-ET	840003131992791						
LEANINGHOUSE SPRNG 22049-ET	840003131992793					C	
LEANINGHOUSE SPRNG 22050-ET	840003131992794						
LEANINGHOUSE SPRNG 22057-ET	840003131992801						
LEANINGHOUSE SPRNG 22058-ET	840003131992802						
LEANINGHOUSE SPRNG 22061-ET	840003131992805						
LEANINGHOUSE SPRNG 22064-ET	840003131992808						
LEANINGHOUSE SPRNG 22067-ET	840003131992811						
LEANINGHOUSE SPRNG 22068-ET	840003131992812						
LEANINGHOUSE SPRNG 22069-ET	840003131992813						
LEANINGHOUSE SPRNG 22075-ET	840003131992819						
LEANINGHOUSE SPRNG 22078-ET	840003131992822					C	
LEANINGHOUSE SPRSR 21064-ET	USA 74146815						
LEANINGHOUSE SSHOT 21155-ET	USA 74146906						
LEANINGHOUSE SSHOT 21157-ET	USA 74146908						
LEANINGHOUSE SSHOT 21158-ET	USA 74146909						
LEANINGHOUSE SSHOT 21681-ET	840003129136237						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

124

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE SSHOT 21697-ET	840003129136253						
LEANINGHOUSE SSHOT 21700-ET	840003129136256						
LEANINGHOUSE SSHOT 21702-ET	840003129136258						
LEANINGHOUSE SSHOT 21704-ET	840003129136260						
LEANINGHOUSE SSHOT 21706-ET	840003129136262					C	
LEANINGHOUSE SSHOT 21707-ET	840003129136263						
LEANINGHOUSE SSHOT 21713-ET	840003129136269					C	
LEANINGHOUSE SSHOT 21717-ET	840003129136273					C	
LEANINGHOUSE SSHOT 21728-ET	840003129136284						
LEANINGHOUSE SSHOT 21729-ET	840003129136285						
LEANINGHOUSE SSHOT 21741-ET	840003129136297						
LEANINGHOUSE SSHOT 21756-ET	840003129136312						
LEANINGHOUSE SSHOT 21795-ET	840003129136351					C	
LEANINGHOUSE SSHOT 21800-ET	840003129136356						
LEANINGHOUSE SSHOT 22072-ET	840003131992816						
LEANINGHOUSE SSHOT 22073-ET	840003131992817						
LEANINGHOUSE SSHOT 22074-ET	840003131992818						
LEANINGHOUSE SSHOT 22076-ET	840003131992820						
LEANINGHOUSE SSHOT 22077-ET	840003131992821						
LEANINGHOUSE SSHOT 22079-ET	840003131992823						
LEANINGHOUSE SSHOT 22080-ET	840003131992824						
LEANINGHOUSE SSHOT 22082-ET	840003131992826						
LEANINGHOUSE SSHOT 22089-ET	840003131992833						
LEANINGHOUSE SSHOT 22090-ET	840003131992834						
LEANINGHOUSE SSIRE 21052-ET	USA 74146803						
LEANINGHOUSE STERLING 20670	USA 72958187						
LEANINGHOUSE SUPERSIRE BAHA	USA 72479401						
LEANINGHOUSE SUPRSIR 20440	USA 72237502						
LEANINGHOUSE SUPRSIR 20490	USA 72237552						
LEANINGHOUSE SUPRSIR 20497	USA 72237559						
LEANINGHOUSE SUPRSIR 20514	USA 72958031						
LEANINGHOUSE SUPRSIR 20518	USA 72958035						
LEANINGHOUSE SUPRSIR 20576	USA 72958093						
LEANINGHOUSE SUPRSIR 20577	USA 72958094						
LEANINGHOUSE SUPRSIR 20605	USA 72958122						
LEANINGHOUSE SUPRSIR 20616	USA 72958133						
LEANINGHOUSE SUPRSIR 20690	USA 72958207						
LEANINGHOUSE SUPRSIR 20702	USA 73450220						
LEANINGHOUSE SUPRSIR 20741	USA 73450259						
LEANINGHOUSE SUPRSIR 20743	USA 73450261						
LEANINGHOUSE SUPRSIR 20783	USA 73450301						
LEANINGHOUSE SUPRSIR 20883	USA 73450401						
LEANINGHOUSE SUPRSIR 20916	USA 74146667			C			
LEANINGHOUSE SUPRSIR 21000	USA 74146751						
LEANINGHOUSE SV 21613-TW	840003129136169						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

125

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEANINGHOUSE SV 21614-TW	840003129136170						
LEANINGHOUSE TANGO 20919	USA 74146670						
LEANINGHOUSE TANGO 20929	USA 74146680						
LEANINGHOUSE TANGO 20936	USA 74146687		C				
LEANINGHOUSE TANGO 20941	USA 74146692						
LEANINGHOUSE TANGO 20993	USA 74146744		C				3
LEANINGHOUSE TANGO 21002	USA 74146753		C				
LEANINGHOUSE TANGO 21094	USA 74146845		C				
LEANINGHOUSE TANGO 21264	USA 74147015		C				
LEANINGHOUSE TANGO 21269	USA 74147020						
LEANINGHOUSE TANGO 21273	USA 74147024		C				
LEANINGHOUSE TANGO 21278	USA 74147029						
LEANINGHOUSE TANGO 21308	840003129135864						
LEANINGHOUSE TANGO 21309	840003129135865		C				
LEANINGHOUSE TANGO 21621	840003129136177						
LEANINGHOUSE TANGO 21634	840003129136190		C				
LEANINGHOUSE TEACHER 21404	840003129135960						3
LEANINGHOUSE TIME 20246	USA 72237308						
LEANINGHOUSE TROY 21808	840003130431779						
LEANINGHOUSE TROY 22053-ET	840003131992797						
LEANINGHOUSE TROY 22056-ET	840003131992800						
LEANINGHOUSE WINDSOR 20750	USA 73450268						
LEANINGHOUSE WINDSOR 21660	840003129136216						1
LEANINGHOUSE WNSDR 20961-ET	USA 74146712						
LEANINGHOUSE WNSDR 20964-ET	USA 74146715			C			
LEANINGHOUSE YODER 21179-ET	USA 74146930						
LEANINGHOUSE YODER 21182-ET	USA 74146933						
LEANINGHOUSE YODER 21183-ET	USA 74146934						
LEANINGHOUSE YODER 21188-ET	USA 74146939						
LEANINGHOUSE YODER 21194-ET	USA 74146945						
LEANINGHOUSE YODER 21726-ET	840003129136282						
LEANINGHOUSE YODER 21759-ET	840003129136315						
LEANINGHOUSE YODER 21897-ET	840003130431868						
LEANINGHOUSE YODER 21976-ET	840003130431947					C	
LEANN-ACRES TERRASON HONEY	USA 63015577						
LEASEWAY ADVENT AMY-ET	USA 63285181						
LEASEWAY BAXTER EMBERS-ET	USA 63285214						
LEASEWAY GOLD ATLEE-ET	USA 63285225						
LEASEWAY SKYFIRE NANCY-RED	USA 69206353						
LEAWOOD RADIANT WNDBRK-ET	USA 73618479						1
LEAWOOD RAMONA-ET	840003128940326						
LEAWOOD ROSALYN ET-ET	USA 73618463						
LEAWOOD ROSARIO-TW	USA 72084848						
LEAWOOD ROSITA-TW	USA 72084847						
LEAWOOD ROWENA-ET	840003128940325						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEAWOOD SPICE GIRL-RED-ET	USA 72084857						
LEB-VAL OLEGANT 254	USA 73865188						
LEB-VAL ST ALLSTAR 67644	840003123611433						
LECHEL ADVENT ROSE-RED	USA 63417352						
LEDGE ALLSTAR 93 626	USA 69569688						1
LEDGE CADET 87 1591	USA 69569682						
LEDGE CADET 88 644	USA 69569683						
LEDGE MALLOW 89 1558	USA 69569684						
LEDGE MOOD 86 365	USA 69569681						
LEDGE MORPHEOUS 96 640	USA 69569691						
LEELAND ADV ST SHEE-RED-ET	USA 64356225						
LEEMODE DOMAIN SPECIAL	USA 70229914						
LEEMODE SHOTGUN MANDY	USA 71253589						
LEESIA BRIDGETTE BONIE BRNT	USA 140052811						
LEFT-MAC CAS LYSSA CRI-ET	USA 68767207						
LEFT-MAC CASINO LILA CRI-ET	USA 68767214						
LEFT-MAC LIVIA CRI-ET	USA 68767203						
LEFT-MAC MARSH HOTSTUFF	USA 137855384						
LEGACY-SCH 6761	USA 72679992						
LEGACY-SCH 6950	USA 72679993						
LEGACY-SCH 7121	USA 72607528						
LEGACY-SCH ALTON 7311	USA 69756453						
LEGACY-SCH ARGON 7822	USA 70887818						
LEGACY-SCH ARMITAGE 7740	USA 70887736						
LEGACY-SCH BAXTER 8941	840003129251881						
LEGACY-SCH BERKLEY 8577	USA 74034284						
LEGACY-SCH BUFORD 7716	USA 70887712						
LEGACY-SCH BURT 6277	USA 72770076						
LEGACY-SCH BURT 7109	USA 142814671						
LEGACY-SCH BURT 7764	USA 70887760						
LEGACY-SCH BURT 7765	USA 70887761						
LEGACY-SCH BURT 7793	USA 70887789						
LEGACY-SCH BURT 8040	USA 71800654						
LEGACY-SCH BURT 8053	USA 72320051						
LEGACY-SCH BURT 8099	USA 72320097						
LEGACY-SCH BURT 8138	USA 72320136						
LEGACY-SCH BURT 8163	USA 72686244						
LEGACY-SCH DENZO 8638	USA 74034345						3
LEGACY-SCH DISCOVER 7768	USA 70887764						
LEGACY-SCH DOBERMAN 2786	USA 73536621						
LEGACY-SCH DOBERMAN 7938	USA 71800552						
LEGACY-SCH DOBERMAN 7947	USA 71800561						
LEGACY-SCH DOBERMAN 7951	USA 71800565						
LEGACY-SCH DOBERMAN 7956	USA 71800570						
LEGACY-SCH DOBERMAN 7963	USA 71800577						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

127

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH DOBERMAN 7996	USA 71800610						
LEGACY-SCH DOBERMAN 8005	USA 71800619						
LEGACY-SCH DOBERMAN 8211	USA 72686292						
LEGACY-SCH DOBERMAN 8351	USA 73245034						
LEGACY-SCH DOBERMAN 8486	USA 74034193						
LEGACY-SCH DOBERMAN 8527	USA 74034234						
LEGACY-SCH DOBERMAN 8530	USA 74034237						
LEGACY-SCH DOBERMAN 8546	USA 74034253						
LEGACY-SCH DOBERMAN 8550	USA 74034257						
LEGACY-SCH DOBERMAN 8578	USA 74034285						
LEGACY-SCH DOBERMAN 8581	USA 74034288						
LEGACY-SCH DOBERMAN 8766	840003129251706						
LEGACY-SCH DOBERMAN 8778	840003129251718						
LEGACY-SCH DOBERMAN 8780	840003129251720						
LEGACY-SCH DOBERMAN 8786	840003129251726						
LEGACY-SCH DOBERMAN 8801	840003129251741						
LEGACY-SCH DOBERMAN 8848	840003129251788						
LEGACY-SCH DOBERMAN 8933	840003129251873						
LEGACY-SCH DORCY 8554-ET	USA 74034261		C				3
LEGACY-SCH DORCY 8619-TW	USA 74034326						
LEGACY-SCH DORCY 8629-ET	USA 74034336						
LEGACY-SCH DORCY 8645-ET	USA 74034352						
LEGACY-SCH DORCY 8655-ET	USA 74034362						
LEGACY-SCH DORCY 8659-TW	USA 74034366						3
LEGACY-SCH DORCY 8660-TW	USA 74034367						3
LEGACY-SCH DORCY 8670-ET	USA 74034377						
LEGACY-SCH DORCY 8698	USA 74034405						
LEGACY-SCH DORCY 8961	840003135328987						
LEGACY-SCH DOVER 8718	840003129251658						
LEGACY-SCH DOVER 8758	840003129251698						
LEGACY-SCH DOVER 8763	840003129251703						
LEGACY-SCH ELITE 8887	840003129251827						
LEGACY-SCH ERRACTIC 8654	USA 74034361						
LEGACY-SCH EXCEL 7726	USA 70887722						
LEGACY-SCH EXPLODE 8755	840003129251695						
LEGACY-SCH FLIPPER 7866	USA 71800480						
LEGACY-SCH GALLON 7502	USA 70287255						
LEGACY-SCH GALLON 8771	840003129251711						
LEGACY-SCH GARRETT 7401	USA 69756543						
LEGACY-SCH GARRETT 7882	USA 71800496						
LEGACY-SCH GARRETT 7953	USA 71800567						
LEGACY-SCH GARRETT 8018	USA 71800632						
LEGACY-SCH GARRETT 8067	USA 72320065						
LEGACY-SCH GARRETT 8070	USA 72320068						
LEGACY-SCH GARRETT 8134	USA 72320132						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

128

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH GARRETT 8136	USA 72320134						
LEGACY-SCH GARRETT 8177	USA 72686258						
LEGACY-SCH GARRETT 8373	USA 73245056						
LEGACY-SCH GARRETT 8412	USA 73245095						1
LEGACY-SCH GARRETT 8537	USA 74034244			C			3
LEGACY-SCH GARRETT 8540	USA 74034247						
LEGACY-SCH GARRETT 8542	USA 74034249						
LEGACY-SCH GARRETT 8553	USA 74034260						
LEGACY-SCH GARRETT 8585-TW	USA 74034292						
LEGACY-SCH GARRETT 8586-TW	USA 74034293						
LEGACY-SCH GARRETT 8610	USA 74034317						
LEGACY-SCH GARRETT 8699	USA 74034406						
LEGACY-SCH GARRICK 8003	USA 71800617						
LEGACY-SCH GARRICK 8034	USA 71800648						
LEGACY-SCH GARRICK 8182	USA 72686263						
LEGACY-SCH GERALD 7719-TW	USA 70887715						3
LEGACY-SCH GERALD 7720-TW	USA 70887716						
LEGACY-SCH GERARD 7493	USA 70287246						
LEGACY-SCH GERARD 7494	USA 70287247						
LEGACY-SCH GERARD 7642	USA 70287395						
LEGACY-SCH GERARD 7676	USA 70887672						
LEGACY-SCH GERARD 7681	USA 70887677						
LEGACY-SCH GERARD 7709	USA 70887705						
LEGACY-SCH GERARD 7733	USA 70887729		C				3
LEGACY-SCH GERARD 7739	USA 70887735						
LEGACY-SCH GERARD 7748	USA 70887744						
LEGACY-SCH GERARD 7752	USA 70887748						
LEGACY-SCH GERARD 7753	USA 70887749						
LEGACY-SCH GERARD 7758	USA 70887754						
LEGACY-SCH GERARD 7761	USA 70887757						
LEGACY-SCH GERARD 7773	USA 70887769						
LEGACY-SCH GERARD 7796	USA 70887792						
LEGACY-SCH GERARD 7852	USA 71800466						
LEGACY-SCH GERARD 7880	USA 71800494					C	
LEGACY-SCH GERARD 7908	USA 71800522						
LEGACY-SCH GERARD 7928	USA 71800542						
LEGACY-SCH GERARD 7929	USA 71800543						
LEGACY-SCH GERARD 7939	USA 71800553						
LEGACY-SCH GERARD 7965-ET	USA 71800579						
LEGACY-SCH GERARD 7973	USA 71800587						
LEGACY-SCH GERARD 7977	USA 71800591						
LEGACY-SCH GERARD 7979	USA 71800593						
LEGACY-SCH GERARD 7989	USA 71800603						
LEGACY-SCH GERARD 8058-ET	USA 72320056						
LEGACY-SCH GERARD 8060-ET	USA 72320058		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH GERARD 8061-ET	USA 72320059						
LEGACY-SCH GERARD 8063-ET	USA 72320061						
LEGACY-SCH GERARD 8064-ET	USA 72320062						
LEGACY-SCH GERARD 8071	USA 72320069						
LEGACY-SCH GERARD 8078	USA 72320076						
LEGACY-SCH GERARD 8095	USA 72320093						
LEGACY-SCH GERARD 8114	USA 72320112						
LEGACY-SCH GERARD 8120	USA 72320118						
LEGACY-SCH GERARD 8126	USA 72320124						
LEGACY-SCH GERARD 8143	USA 72320141						
LEGACY-SCH GERARD 8162	USA 72686243						
LEGACY-SCH GERARD 8227-ET	USA 72686308						
LEGACY-SCH GERARD 8229-ET	USA 72686310						
LEGACY-SCH GERARD 8230-ET	USA 72686311						
LEGACY-SCH GERARD 8249	USA 72686330						
LEGACY-SCH GERARD 8293	USA 72686374						
LEGACY-SCH GERARD 8297	USA 72686378						
LEGACY-SCH GERARD 8307	USA 73244990						
LEGACY-SCH GERARD 8316	USA 73244999						
LEGACY-SCH GERARD 8322	USA 73245005						
LEGACY-SCH GERARD 8323	USA 73245006						
LEGACY-SCH GERARD 8328	USA 73245011						
LEGACY-SCH GERARD 8354	USA 73245037						
LEGACY-SCH GERARD 8367	USA 73245050						
LEGACY-SCH GERARD 8382	USA 73245065						3
LEGACY-SCH GERARD 8400	USA 73245083						
LEGACY-SCH GERARD 8401	USA 73245084			C			
LEGACY-SCH GERARD 8416-TW	USA 73245099						
LEGACY-SCH GERARD 8422	USA 73245105						3
LEGACY-SCH GERARD 8433	USA 73245116						
LEGACY-SCH GERARD 8453	USA 74034160						
LEGACY-SCH GERARD 8459	USA 74034166						
LEGACY-SCH GERARD 8461	USA 74034168						3
LEGACY-SCH GERARD 8465	USA 74034172						
LEGACY-SCH GERARD 8501	USA 74034208						
LEGACY-SCH GERARD 8503	USA 74034210						
LEGACY-SCH GERARD 8523	USA 74034230						
LEGACY-SCH GERARD 8534	USA 74034241						
LEGACY-SCH GERARD 8544	USA 74034251						
LEGACY-SCH GERARD 8582	USA 74034289						
LEGACY-SCH GERARD 8597	USA 74034304						
LEGACY-SCH GERARD 8652	USA 74034359						
LEGACY-SCH GERARD 8687	USA 74034394						
LEGACY-SCH GERARD 8717	840003129251657						
LEGACY-SCH GERARD 8726	840003129251666						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH GERARD 8727	840003129251667						
LEGACY-SCH GERARD 8739	840003129251679						
LEGACY-SCH GERARD 8765	840003129251705						
LEGACY-SCH GERARD 8819	840003129251759						
LEGACY-SCH GERARD 8821	840003129251761						
LEGACY-SCH GERARD 8842	840003129251782						
LEGACY-SCH GILLESPIY 8036-ET	USA 71800650		C				3
LEGACY-SCH GILLESPIY 8046	USA 71800660						
LEGACY-SCH GILLESPIY 8054-ET	USA 72320052						
LEGACY-SCH GILLESPIY 8057-ET	USA 72320055						
LEGACY-SCH GILLESPIY 8076	USA 72320074						
LEGACY-SCH GILLESPIY 8084-ET	USA 72320082						
LEGACY-SCH GILLESPIY 8171	USA 72686252						
LEGACY-SCH GILLESPIY 8180	USA 72686261						
LEGACY-SCH GILLESPIY 8234-ET	USA 72686315						
LEGACY-SCH GILLESPIY 8242	USA 72686323						
LEGACY-SCH GILLESPIY 8284	USA 72686365						
LEGACY-SCH GILLESPIY 8285	USA 72686366			C			
LEGACY-SCH GILLESPIY 8288-ET	USA 72686369						
LEGACY-SCH GILLESPIY 8290-ET	USA 72686371						
LEGACY-SCH GILLESPIY 8306	USA 73244989						
LEGACY-SCH GILLESPIY 8330-ET	USA 73245013						
LEGACY-SCH GILLESPIY 8333-ET	USA 73245016						
LEGACY-SCH GILLESPIY 8334-ET	USA 73245017						
LEGACY-SCH GILLESPIY 8335-ET	USA 73245018						
LEGACY-SCH GILLESPIY 8336-ET	USA 73245019						
LEGACY-SCH GILLESPIY 8369	USA 73245052						
LEGACY-SCH GILLESPIY 8372	USA 73245055						
LEGACY-SCH GILLESPIY 8410	USA 73245093						
LEGACY-SCH GILLESPIY 8421	USA 73245104						
LEGACY-SCH GILLESPIY 8423	USA 73245106						
LEGACY-SCH GILLESPIY 8454	USA 74034161						
LEGACY-SCH GILLESPIY 8484	USA 74034191						
LEGACY-SCH GILLESPIY 8507-ET	USA 74034214						
LEGACY-SCH GILLESPIY 8508-ET	USA 74034215						
LEGACY-SCH GILLESPIY 8518	USA 74034225						
LEGACY-SCH GILLESPIY 8528	USA 74034235						
LEGACY-SCH GILLESPIY 8613	USA 74034320						3
LEGACY-SCH GILLESPIY 8617	USA 74034324						
LEGACY-SCH GILLESPIY 8653	USA 74034360						
LEGACY-SCH GILLESPIY 8845	840003129251785						
LEGACY-SCH GLORY 7885	USA 71800499						
LEGACY-SCH GNBOY 8849	840003129251789						3
LEGACY-SCH GOLDENBOY 7662	USA 70887658						
LEGACY-SCH GOLDENBOY 7665	USA 70887661						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH GOLDENBOY 8020	USA 71800634						3
LEGACY-SCH GOLDENBOY 8754	840003129251694						3
LEGACY-SCH GOMEZ 8069	USA 72320067						
LEGACY-SCH GRANDMASTER 8462	USA 74034169						
LEGACY-SCH GREATEST 8877	840003129251817						
LEGACY-SCH GREATEST 8902	840003129251842						
LEGACY-SCH GREATEST 8945	840003129251885						
LEGACY-SCH HARVARD 7179	USA 143065669						
LEGACY-SCH HAT 8789	840003129251729						
LEGACY-SCH HAT 8827	840003129251767						
LEGACY-SCH HATLEY 7157	USA 141935609		C				3
LEGACY-SCH HISTORY 8305	USA 73244988				C		
LEGACY-SCH HISTORY 8310	USA 73244993		C		C		
LEGACY-SCH HISTORY 8326-ET	USA 73245009				C		
LEGACY-SCH HISTORY 8331	USA 73245014				C		
LEGACY-SCH HISTORY 8339	USA 73245022			C	C	C	
LEGACY-SCH HISTORY 8365	USA 73245048						
LEGACY-SCH HISTORY 8371	USA 73245054						
LEGACY-SCH HISTORY 8374	USA 73245057						
LEGACY-SCH HISTORY 8381	USA 73245064				C		
LEGACY-SCH HISTORY 8404	USA 73245087						
LEGACY-SCH HISTORY 8405-ET	USA 73245088				C		
LEGACY-SCH HISTORY 8409	USA 73245092			C			
LEGACY-SCH HISTORY 8428-ET	USA 73245111						
LEGACY-SCH HISTORY 8430-ET	USA 73245113				C		
LEGACY-SCH HISTORY 8434-ET	USA 73245117						
LEGACY-SCH HISTORY 8445	USA 73245128				C		
LEGACY-SCH HISTORY 8447	USA 73245130				C		
LEGACY-SCH HISTORY 8467	USA 74034174						
LEGACY-SCH HISTORY 8487	USA 74034194			C	C		
LEGACY-SCH HISTORY 8490	USA 74034197						
LEGACY-SCH HISTORY 8493	USA 74034200						
LEGACY-SCH HISTORY 8495	USA 74034202						
LEGACY-SCH HISTORY 8502-ET	USA 74034209				C		
LEGACY-SCH HISTORY 8532	USA 74034239				C		
LEGACY-SCH HISTORY 8538	USA 74034245			C			
LEGACY-SCH HISTORY 8664	USA 74034371				C		
LEGACY-SCH HISTORY 8716	840003129251656						
LEGACY-SCH HISTORY 8772	840003129251712				C		
LEGACY-SCH HISTORY 8779	840003129251719			C	C		
LEGACY-SCH HISTORY 8829	840003129251769				C		
LEGACY-SCH HISTORY 8838	840003129251778						
LEGACY-SCH HISTORY 8927	840003129251867				C		
LEGACY-SCH IOTA 8753	840003129251693						
LEGACY-SCH IOTA 8919	840003129251859						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH JACEY 8604	USA 74034311						
LEGACY-SCH JACEY 8620	USA 74034327						
LEGACY-SCH JAMMER 7094	USA 143065650						
LEGACY-SCH JAMMER 7249	USA 142921601						
LEGACY-SCH LARGE 7830	USA 70887826						
LEGACY-SCH MACHINE 8396	USA 73245079				C		
LEGACY-SCH MAGNETISM 8548	USA 74034255						
LEGACY-SCH MAGNOLIA 7836	USA 70887832						
LEGACY-SCH MAN-O-MAN2 8529	USA 74034236						
LEGACY-SCH MAN-OMAN 8498-ET	USA 74034205		C				
LEGACY-SCH MASSEY 8603-ET	USA 74034310						
LEGACY-SCH MASSEY 8621	USA 74034328						
LEGACY-SCH MASSEY 8640	USA 74034347						
LEGACY-SCH MASSEY 8658	USA 74034365						
LEGACY-SCH MASSEY 8672-ET	USA 74034379						
LEGACY-SCH MASSEY 8679-ET	USA 74034386						
LEGACY-SCH MASSEY 8680-ET	USA 74034387						
LEGACY-SCH MASSEY 8705	840003129251645						
LEGACY-SCH MASSEY 8734	840003129251674						
LEGACY-SCH MASSEY 8764	840003129251704						
LEGACY-SCH MASSEY 8853	840003129251793						
LEGACY-SCH MASSEY 8912	840003129251852						
LEGACY-SCH MASSIVE 8551	USA 74034258		C				
LEGACY-SCH MAUSER 8958	840003135328984						
LEGACY-SCH MAUSER 8964	840003135328990						
LEGACY-SCH MAZDA 8722	840003129251662						
LEGACY-SCH MAZDA 8761	840003129251701						
LEGACY-SCH MCCORMICK 7647	USA 70287400						
LEGACY-SCH MCCORMICK 7648	USA 70287401			C			
LEGACY-SCH MCCORMICK 7675	USA 70887671			C			
LEGACY-SCH MCCORMICK 7701	USA 70887697			C			
LEGACY-SCH MCCORMICK 7705	USA 70887701			C			
LEGACY-SCH MCCORMICK 7722	USA 70887718			C		C	
LEGACY-SCH MCCORMICK 7743	USA 70887739						
LEGACY-SCH MCCORMICK 7754	USA 70887750						
LEGACY-SCH MCCORMICK 7772	USA 70887768						
LEGACY-SCH MCCORMICK 7847	USA 70887843						
LEGACY-SCH MCCORMICK 7881	USA 71800495			C			
LEGACY-SCH MCCORMICK 7888	USA 71800502						
LEGACY-SCH MCCORMICK 7893	USA 71800507			C			
LEGACY-SCH MCCORMICK 7923	USA 71800537			C			
LEGACY-SCH MCCORMICK 7937	USA 71800551						
LEGACY-SCH MCCORMICK 7941	USA 71800555			C			
LEGACY-SCH MCCORMICK 7980	USA 71800594			C		C	
LEGACY-SCH MCCORMICK 8042	USA 71800656			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH MCCORMICK 8483	USA 74034190						
LEGACY-SCH MESSIAH 7910	USA 71800524						
LEGACY-SCH MOGUL 8891	840003129251831						
LEGACY-SCH MYRLE 8785-ET	840003129251725						
LEGACY-SCH MYRLE 8791	840003129251731						
LEGACY-SCH MYRLE 8793	840003129251733						
LEGACY-SCH MYRLE 8797	840003129251737						
LEGACY-SCH MYRLE 8804	840003129251744						
LEGACY-SCH MYRLE 8818	840003129251758						
LEGACY-SCH MYRLE 8844	840003129251784						
LEGACY-SCH MYRLE 8846-ET	840003129251786						
LEGACY-SCH MYRLE 8850	840003129251790						1
LEGACY-SCH MYRLE 8870	840003129251810						
LEGACY-SCH MYRLE 8880	840003129251820						
LEGACY-SCH MYRLE 8909	840003129251849						
LEGACY-SCH MYRLE 8951	840003135328977						
LEGACY-SCH MYRLE 8969	840003135328995						
LEGACY-SCH PENN 8894	840003129251834						
LEGACY-SCH PENN 8908	840003129251848						
LEGACY-SCH PENNYMAKER 7630	USA 70287383						
LEGACY-SCH PENNYMAKER 8352	USA 73245035						
LEGACY-SCH PENNYMAKER 8366	USA 73245049						
LEGACY-SCH PENNYMAKER 8406	USA 73245089						
LEGACY-SCH PENNYMAKER 8424	USA 73245107		C				
LEGACY-SCH PENNYMAKER 8435	USA 73245118						
LEGACY-SCH PENNYMAKER 8472	USA 74034179						
LEGACY-SCH PENNYMAKER 8473	USA 74034180						
LEGACY-SCH PENNYMAKER 8480	USA 74034187						
LEGACY-SCH PENNYMAKER 8504	USA 74034211						
LEGACY-SCH PENNYMAKER 8510	USA 74034217						
LEGACY-SCH PENNYMAKER 8549	USA 74034256						
LEGACY-SCH PENNYMAKER 8592	USA 74034299			C			
LEGACY-SCH PENNYMAKER 8605	USA 74034312						
LEGACY-SCH PENNYMAKER 8639	USA 74034346						
LEGACY-SCH PENNYMAKER 8647	USA 74034354						
LEGACY-SCH PENNYMAKER 8681	USA 74034388						
LEGACY-SCH PENNYMAKER 8702	840003129251642						
LEGACY-SCH PENNYMAKER 8723	840003129251663			C			
LEGACY-SCH PENNYMAKER 8732	840003129251672			C			
LEGACY-SCH PENNYMAKER 8740	840003129251680						
LEGACY-SCH PENNYMAKER 8750	840003129251690						
LEGACY-SCH PENNYMAKER 8762	840003129251702						
LEGACY-SCH PENNYMAKER 8840	840003129251780						
LEGACY-SCH PENNYMAKER 8859	840003129251799			C			
LEGACY-SCH PENNYMAKER 8864	840003129251804						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH PENNYMAKER 8869	840003129251809						
LEGACY-SCH PENNYMAKER 8876	840003129251816						
LEGACY-SCH PENNYMAKER 8879	840003129251819						
LEGACY-SCH PENNYMAKER 8881	840003129251821			C			
LEGACY-SCH PENNYMAKER 8884	840003129251824			C			
LEGACY-SCH PENNYMAKER 8885	840003129251825						
LEGACY-SCH PENNYMAKER 8888	840003129251828						
LEGACY-SCH PENNYMAKER 8896	840003129251836						
LEGACY-SCH PENNYMAKER 8918	840003129251858			C			
LEGACY-SCH PENNYMKR 7848-TW	USA 70887844						
LEGACY-SCH PENNYMKR 7849-TW	USA 70887845						
LEGACY-SCH PENNYMKR 8787-TW	840003129251727						
LEGACY-SCH PENNYMKR 8788-TW	840003129251728						
LEGACY-SCH PEPIN 7966	USA 71800580						
LEGACY-SCH PHOENIX 7889	USA 71800503						
LEGACY-SCH PICARDUS 8684-ET	USA 74034391						
LEGACY-SCH PICARDUS 8688-ET	USA 74034395						
LEGACY-SCH PICARDUS 8776	840003129251716						
LEGACY-SCH PICARDUS 8795	840003129251735						
LEGACY-SCH PICARDUS 8861	840003129251801						
LEGACY-SCH PICARDUS 8903	840003129251843						
LEGACY-SCH PIRATE 8683	USA 74034390					C	
LEGACY-SCH ROBUST 8802-ET	840003129251742						
LEGACY-SCH ROBUST 8900-ET	840003129251840						
LEGACY-SCH ROBUST 8973-ET	840003135328999						3
LEGACY-SCH SAJAC 8724	840003129251664						
LEGACY-SCH SHERAC 8685	USA 74034392						
LEGACY-SCH SHERAC 8692	USA 74034399						
LEGACY-SCH SHERAC 8701	840003129251641						
LEGACY-SCH SHERAC 8703	840003129251643						
LEGACY-SCH SHERAC 8714	840003129251654						
LEGACY-SCH SHERAC 8731-TW	840003129251671						
LEGACY-SCH SHERAC 8737	840003129251677						1
LEGACY-SCH SHERAC 8741	840003129251681						
LEGACY-SCH SHERAC 8815	840003129251755						
LEGACY-SCH SHERAC 8830	840003129251770						
LEGACY-SCH SONNY 8575	USA 74034282						
LEGACY-SCH SOTO 7659	USA 70887655						
LEGACY-SCH SUPERSIRE 8897	840003129251837						
LEGACY-SCH SUPERSIRE 8901	840003129251841						
LEGACY-SCH SUPERSIRE 8907	840003129251847						
LEGACY-SCH SUPERSIRE 8911	840003129251851						
LEGACY-SCH SUPERSIRE 8913	840003129251853						
LEGACY-SCH SUPERSIRE 8920	840003129251860						
LEGACY-SCH SUPERSIRE 8922	840003129251862						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGACY-SCH SUPERSIRE 8924	840003129251864						
LEGACY-SCH SUPERSIRE 8928	840003129251868						
LEGACY-SCH SUPERSIRE 8966	840003135328992						
LEGACY-SCH SUPRSIRE 8952-ET	840003135328978						
LEGACY-SCH SUPRSIRE 8960-ET	840003135328986						
LEGACY-SCH SUPRSIRE 8965-ET	840003135328991						
LEGACY-SCH SUPRSIRE 8968-ET	840003135328994						
LEGACY-SCH SUPRSIRE 8970-ET	840003135328996						
LEGACY-SCH SUPRSIRE 8971-ET	840003135328997						
LEGACY-SCH SUPRSIRE 8972-ET	840003135328998						
LEGACY-SCH SUPRSIRE 8974-ET	840003135329000						
LEGACY-SCH SUPRSIRE 8976-ET	840003135329002						
LEGACY-SCH SUPRSIRE 8977-ET	840003135329003						
LEGACY-SCH TITANIUM 7777	USA 70887773						
LEGACY-SCH TRIVIA 8770	840003129251710						
LEGACY-SCH TROYER 8841	840003129251781						
LEGACY-SCH WOODY 8790	840003129251730						
LEGACY-SCH WOODY 8959	840003135328985						
LEGEND DAIRY ALBANY 14622	USA 70495675						
LEGEND DAIRY ALBANY 15160	USA 71361353						
LEGEND DAIRY ANGELICA 15236	USA 71361429						
LEGEND DAIRY ANNA 13814	USA 68792281						
LEGEND DAIRY ARACELIS 13965	USA 68792432						
LEGEND DAIRY BARBIE 14245	USA 69597813						
LEGEND DAIRY BERTHA 11950	USA 63526472			C			
LEGEND DAIRY BGAY2 14112	USA 69597680					C	
LEGEND DAIRY BRIDGET 15339	USA 71361532						
LEGEND DAIRY CARMEN 14685	USA 70495738						1
LEGEND DAIRY CARMEN 15197	USA 71361390					C	1
LEGEND DAIRY CARMN 13434-ET	USA 66434473						1
LEGEND DAIRY CARON 13643-ET	USA 68792110						
LEGEND DAIRY CAROT 15277-TW	USA 71361470						1
LEGEND DAIRY CATLYN 15209	USA 71361402		C				
LEGEND DAIRY CONNIE 14217	USA 69597785						
LEGEND DAIRY COZY 16113-ET	USA 73261650						
LEGEND DAIRY DANCE 14388-ET	USA 69597956						
LEGEND DAIRY DANCE 14390-ET	USA 69597958					C	
LEGEND DAIRY DANCE 14392-ET	USA 69597960						
LEGEND DAIRY DANCE 14405-ET	USA 69597973					C	
LEGEND DAIRY DANCE 15262	USA 71361455						
LEGEND DAIRY DANCE 15285-ET	USA 71361478					C	
LEGEND DAIRY DASH 15195	USA 71361388						
LEGEND DAIRY DIXIE 14409	USA 69597977						
LEGEND DAIRY DOLLE 14253-ET	USA 69597821						
LEGEND DAIRY DOLLE 14256-ET	USA 69597824						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGEND DAIRY DOLLY 14192	USA 69597760						
LEGEND DAIRY DURHAM GRACE	USA 62416358						
LEGEND DAIRY ECHO 15282	USA 71361475						
LEGEND DAIRY EGAY3 14033	USA 69597601						
LEGEND DAIRY ELECTRA 15152	USA 71361345						1
LEGEND DAIRY ELIE 15247	USA 71361440		C				
LEGEND DAIRY ELIE 15332	USA 71361525					C	
LEGEND DAIRY ELIE 15343	USA 71361536						
LEGEND DAIRY ELIE 15576-ET	USA 72211866						
LEGEND DAIRY ELIE 15587-ET	USA 72211877	C					
LEGEND DAIRY ELLYGAY 13975	USA 68792442						
LEGEND DAIRY EVE 16137-ET	USA 73261674						
LEGEND DAIRY EVE 16142-ET	USA 73261679						
LEGEND DAIRY FAYE 15342	USA 71361535						
LEGEND DAIRY GLENDIA16649-ET	USA 74363503					C	
LEGEND DAIRY GLORIA 13990	USA 68792457						
LEGEND DAIRY GLORIA 15226	USA 71361419						
LEGEND DAIRY GRACE 12287	USA 64673570		C				
LEGEND DAIRY GRACE 12437	USA 64673720						
LEGEND DAIRY GRACE 13736	USA 68792203						
LEGEND DAIRY GRACE 15173-ET	USA 71361366						
LEGEND DAIRY GRATE 11328	USA 62854235		C				
LEGEND DAIRY GRATE 14478	USA 69598046		C				
LEGEND DAIRY GREAT 14063	USA 69597631						
LEGEND DAIRY HALO 12426	USA 64673709						
LEGEND DAIRY HALO 14624-ET	USA 70495677					C	
LEGEND DAIRY HANNA 15346	USA 71361539						3
LEGEND DAIRY HATTIE 15217	USA 71361410		C				
LEGEND DAIRY HAY 11958	USA 63526480						
LEGEND DAIRY HIMETRO EVETTE	USA 61750042						
LEGEND DAIRY JACOBI 15216	USA 71361409						
LEGEND DAIRY JANEY 15244-TW	USA 71361437						
LEGEND DAIRY JANIE 12660	USA 65566218						
LEGEND DAIRY JANIE 13392-ET	USA 66434431						
LEGEND DAIRY JANIE 13394-ET	USA 66434433						
LEGEND DAIRY JANIE 13397-ET	USA 66434436						
LEGEND DAIRY JANIE 13403-ET	USA 66434442						
LEGEND DAIRY JANIE 13780-ET	USA 68792247						
LEGEND DAIRY JANIE 14032	USA 69597600						
LEGEND DAIRY JANIE 14707	USA 70495760						
LEGEND DAIRY JANIE 15123	USA 71361316						
LEGEND DAIRY JANIE 15243-TW	USA 71361436						
LEGEND DAIRY JESSI 15267-ET	USA 71361460						
LEGEND DAIRY JESSI 15283-ET	USA 71361476						
LEGEND DAIRY JESSIKA 14683	USA 70495736						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGEND DAIRY JUDITH 13997	USA 68792464						1
LEGEND DAIRY JUSTINE 11934	USA 63526456						
LEGEND DAIRY KAREN 13430-ET	USA 66434469						
LEGEND DAIRY KAREN 15377	USA 71361570						
LEGEND DAIRY KAROL 15314	USA 71361507						
LEGEND DAIRY KAROL 15396	USA 71361589						
LEGEND DAIRY KAROLINE 14201	USA 69597769					C	
LEGEND DAIRY KAROLINE 15235	USA 71361428						
LEGEND DAIRY KIZMET 13905	USA 68792372						
LEGEND DAIRY KIZMT 13835-ET	USA 68792302						
LEGEND DAIRY KIZMT 13837-ET	USA 68792304					C	
LEGEND DAIRY KRIS 16360-ET	USA 73261897					C	
LEGEND DAIRY KRISTEN 14848	USA 70495901						
LEGEND DAIRY KRISTEN 15213	USA 71361406						
LEGEND DAIRY KZMET 14255-ET	USA 69597823						
LEGEND DAIRY KZMET 14315-ET	USA 69597883						
LEGEND DAIRY LEGACY 11994	USA 63526516						
LEGEND DAIRY MARIA 13004	USA 66434043						
LEGEND DAIRY MELI 16419-ET	USA 73261956	C				C	
LEGEND DAIRY MELI 16426-ET	USA 73261963						
LEGEND DAIRY MELI 16431-ET	USA 73261968	C				C	
LEGEND DAIRY MELI 16433-ET	USA 73261970	C				C	
LEGEND DAIRY MELI 16439-ET	USA 73261976	C				C	
LEGEND DAIRY MODEL 14355	USA 69597923						
LEGEND DAIRY MUSIC 15348	USA 71361541						
LEGEND DAIRY NEPTUNE 13080	USA 66434119						
LEGEND DAIRY NICOLE 13146	USA 66434185						
LEGEND DAIRY OPAL 13081	USA 66434120						1
LEGEND DAIRY OPAL 14551	USA 70495604						
LEGEND DAIRY OPAL 15179-ET	USA 71361372						1
LEGEND DAIRY OUTSIDE ROSE	USA 137947566						
LEGEND DAIRY PAPOOSE 15204	USA 71361397						
LEGEND DAIRY PAPPY 16060-ET	USA 73261597					C	
LEGEND DAIRY PASTEL 14593	USA 70495646						
LEGEND DAIRY PASTL 15384-ET	USA 71361577						
LEGEND DAIRY PASTL 15385-ET	USA 71361578						
LEGEND DAIRY RAMONA 12428	USA 64673711						
LEGEND DAIRY RAMONA 14210	USA 69597778						
LEGEND DAIRY RAMONA 15251	USA 71361444						
LEGEND DAIRY RAVEN 15415	USA 71361608						
LEGEND DAIRY RETA 15335	USA 71361528		C				
LEGEND DAIRY RMONA 13499-ET	USA 66434538						
LEGEND DAIRY ROCKY 13508-ET	USA 68791975		C				
LEGEND DAIRY ROXY 13514	USA 68791981						
LEGEND DAIRY RUDOLF ROCKER	USA 61327419						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEGEND DAIRY RUDOLPH LUCETT	USA 61327560						
LEGEND DAIRY RUST 15182	USA 71361375						1
LEGEND DAIRY SARE 14067	USA 69597635						
LEGEND DAIRY SARINA 14145	USA 69597713						
LEGEND DAIRY SHENE 13437-ET	USA 66434476						3
LEGEND DAIRY SHENE 13452-ET	USA 66434491						3
LEGEND DAIRY SHOTT 13813-ET	USA 68792280					C	
LEGEND DAIRY SILVER15188	USA 71361381						
LEGEND DAIRY SNOWIE 15347	USA 71361540						
LEGEND DAIRY SOLUTEE 12475	USA 64673758						
LEGEND DAIRY SOPHI 14019-ET	USA 69597587						
LEGEND DAIRY TABBE 14630-TW	USA 70495683						
LEGEND DAIRY TABBY 14629-TW	USA 70495682						
LEGEND DAIRY TULIP 12572-TW	USA 65566130						
LEGEND DAIRY TWYLA 15321	USA 71361514						
LEGEND DAIRY VALERIE 12074	USA 64673357						
LEGEND DAIRY VENUS 16061-ET	USA 73261598			C			
LEGEND DAIRY ZULLA 15394-ET	USA 71361587						
LEGEND DAIRY ZULLA 15395-ET	USA 71361588						
LEGEND OF GLENDA 16584-ET	USA 74363438						
LEGEND OF GLENDA 16588-ET	USA 74363442						
LEGEND OF GLENDA 16594-ET	USA 74363448					C	
LEGEND OF GLENDA 16597-ET	USA 74363451						
LEGEND OF GLENDA 16608-ET	USA 74363462						
LEGEND OF GLENDA 16610-ET	USA 74363464						
LEGEND OF PAPOOSE 14404-ET	USA 69597972						
LEGEND OF PAPOOSE 14408-ET	USA 69597976					C	
LEGEND OF PAPOOSE 14411-ET	USA 69597979						
LEGEND OF PAPOOSE 14414-ET	USA 69597982						
LEGEND OF SKAGVALE 11590-ET	USA 63526112						
LEGEND OF SKAGVALE 11630-ET	USA 63526152						
LEGEND OF SKAGVALE 14413-ET	USA 69597981					C	
LEGEND OF SLEEPYHOLLOW 7104	USA 62787329						
LEGEND OF SLEEPYHOLLOW 7703	USA 61750072						
LEGEND-MAKER SHAQ GENESIS-RED	CAN 9674604					C	
LEGENDAIRY ASPEN GLOSS	USA 137105201			C			
LEGENDAIRY CHRIS CROSS	USA 141611707						
LEGENDE-ET	DEU 580496516						
LEGENDHOLM-H BRSER 2649-ET	USA 71749882			C			
LEGENDHOLM-N ADORA-ET	USA 69822174						3
LEGENDHOLM-N ALANA-ET	USA 69320666						3
LEGENDHOLM-N ANATOLA-ET	USA 69320668						
LEGENDHOLM-N ANNABEL-ET	USA 69320667						3
LEGENDHOLM-N SUPER ADLER-ET	USA 69822208					C	3
LEH-SANDCREEK ABRAM DEWDROP	840003126823125						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

139

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEH-SANDCREEK ABRAM ROWDY	840003126822870						
LEH-SANDCREEK ABRAM SABRINA	840003013454883						
LEH-SANDCREEK ABRM CHUCKLES	840003013454922						
LEH-SANDCREEK AL SACRAMENTO	840003013454645						
LEH-SANDCREEK ASTRID CORA	840003013454852						
LEH-SANDCREEK BACARD PATTER	840003125535696						
LEH-SANDCREEK BAD EYORE	840003125535622						
LEH-SANDCREEK BARR PHANTOM	840003131304372	C					
LEH-SANDCREEK BILLING AMITA	840003013455106						
LEH-SANDCREEK BOOK TROUBELA	840003126823137						
LEH-SANDCREEK BOOKEM JUDO	840003126823195						
LEH-SANDCREEK BOWL ALLSTATE	840003011510033						
LEH-SANDCREEK BUSHMAN PARIS	840003013454362						
LEH-SANDCREEK CAMPB AMOS-TW	840003131304358						
LEH-SANDCREEK CAMPB ANDI-TW	840003131304359						
LEH-SANDCREEK CLAUDIU HEDDA	840003131304316						
LEH-SANDCREEK CLB BLOOM-TW	840003131304206						
LEH-SANDCREEK CLB BLOOM-TW	840003131304207						
LEH-SANDCREEK CROWN TROUBLE	840003011509564						
LEH-SANDCREEK DAMAR NEPTUNE	840003131304303						
LEH-SANDCREEK DAMARIS PRIM	840003131304353						
LEH-SANDCREEK DAMARS TURTLE	840003131304318						
LEH-SANDCREEK DEF HENRIETTA	840003126823115						
LEH-SANDCREEK DENS ENDEAVOR	USA 140434767						
LEH-SANDCREEK DIENER MELIA	840003013454849						
LEH-SANDCREEK DIGNITY SPADE	840003131304192						
LEH-SANDCREEK DIGNTY GERALD	840003131304157						
LEH-SANDCREEK DIST JALAPENO	840003126823217						
LEH-SANDCREEK DISTINCT LAMB	840003126823127						
LEH-SANDCREEK DISTNCT ROMEO	840003126823145						
LEH-SANDCREEK DOM MYSTERY	USA 141733720						
LEH-SANDCREEK DOMINGO AMY	USA 57384833						
LEH-SANDCREEK DOMINGO MISSY	USA 57384817						
LEH-SANDCREEK DREAMER LOUIE	840003010249013						
LEH-SANDCREEK DREM ATLANTIS	840003010248966						
LEH-SANDCREEK DURAB SPECTER	840003010249153		C				3
LEH-SANDCREEK DURABLE ADA	840003010248906						3
LEH-SANDCREEK DURABLE LEAH	840003010249148						3
LEH-SANDCREEK EMERALD JULIA	840003125535671						
LEH-SANDCREEK ENID CRUIZ	840003125535623			C			
LEH-SANDCREEK ERNIE TRAMP	840003125535552						
LEH-SANDCREEK FLAVIUS DONNY	840003131304264						
LEH-SANDCREEK FUTR SWEETPEA	840003131304017						
LEH-SANDCREEK GABOR LARAMIE	840003010248922						
LEH-SANDCREEK GRAF PARQUET	840003131304159						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEH-SANDCREEK GRAFETI ILENE	840003131304354						1
LEH-SANDCREEK GULF CODY	840003126823092						
LEH-SANDCREEK GULF PETAL	840003013454842						
LEH-SANDCREEK KINGB CORNY	840003131304170						
LEH-SANDCREEK KNGBOY PRAYER	840003131304114						
LEH-SANDCREEK LALLAN BEANS	840003131304319						
LEH-SANDCREEK LAS PEPPER-TW	840003011509580						
LEH-SANDCREEK LASE ASTROID	840003010249019						
LEH-SANDCREEK LASER ALICIA	840003013454888			C		C	
LEH-SANDCREEK LASER MONARCH	840003011509344					C	
LEH-SANDCREEK LASER ONYX	840003011509480					C	
LEH-SANDCREEK LASER SALT-TW	840003011509581						
LEH-SANDCREEK LASER SPOT	840003013454942					C	
LEH-SANDCREEK LASR SQUIRREL	840003013454930					C	
LEH-SANDCREEK M CHECKERS-ET	840003010248969						
LEH-SANDCREEK MAC DANDELION	840003013454401						
LEH-SANDCREEK MAFLD ONTARIO	840003013454935						
LEH-SANDCREEK MAGNUS FUZZY	840003011509706						
LEH-SANDCREEK MAU JULIET-ET	840003010248964						
LEH-SANDCREEK MAU SILVIO-ET	840003011509553						
LEH-SANDCREEK MAXI PENELOPE	USA 141893972						
LEH-SANDCREEK MAXIM JUNIPER	840003011509437						
LEH-SANDCREEK MAXIM PLUTO	840003010249020						
LEH-SANDCREEK MAXUM JUSTINA	840003010249107						
LEH-SANDCREEK MCC CHARLOTTE	840003125535604						
LEH-SANDCREEK MCCUTCHN JOLT	840003013454826						
LEH-SANDCREEK MCNUGET TOBEY	840003131304029						
LEH-SANDCREEK MCNUGG BRENNNA	840003013454912						
LEH-SANDCREEK MICKEY JUDY	USA 57384947						
LEH-SANDCREEK MILLION TONY	840003010249128		C				
LEH-SANDCREEK MIZZOU CASPER	840003013454527						
LEH-SANDCREEK MOGUL CANOLA	840003011509415						
LEH-SANDCREEK MOGUL GHOUL	840003131304296						
LEH-SANDCREEK MOGUL MELLIE	840003131304365						
LEH-SANDCREEK MOGUL SHIRLEY	840003131304333						
LEH-SANDCREEK MONTNEY DITZY	840003125535715						
LEH-SANDCREEK MOON GERANIUM	840003013454929		C				
LEH-SANDCREEK MORP RASBERRY	840003010249150						
LEH-SANDCREEK MORT CORVETTE	840003011509700						
LEH-SANDCREEK MZ CHALLENGER	840003013454554						
LEH-SANDCREEK OBSERVER TINA	840003013455116						
LEH-SANDCREEK OLGANT MYRTLE	840003013454514						
LEH-SANDCREEK OLGANT SATURN	840003013454432						
LEH-SANDCREEK OMAN DOVE	840003013455112						
LEH-SANDCREEK OMAR DIVA	840003011509583						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEH-SANDCREEK OMAR MISSOULA	840003010248903	C					
LEH-SANDCREEK OYEAH PORTIA	840003013454815						
LEH-SANDCREEK PATR SAPPHIRE	840003131304292						
LEH-SANDCREEK PETRONE JUNO	840003131304328						
LEH-SANDCREEK PETY BADGER	840003131304297						
LEH-SANDCREEK PETY QUARTZ	840003131304139					C	
LEH-SANDCREEK PLAN NANCY	840003131304132						
LEH-SANDCREEK PLANT DUNEGAL	840003010248901						
LEH-SANDCREEK POTTER THELMA	USA 142155967						
LEH-SANDCREEK PRED GOOFY	840003126822977						
LEH-SANDCREEK PREDEST B-FLY	840003126823313					C	
LEH-SANDCREEK PREDEST SODA	840003131304000						3
LEH-SANDCREEK PREDST LESLIE	840003126822887						
LEH-SANDCREEK PT SNAPDRAGON	840003011509430						
LEH-SANDCREEK PUBLISH PEPPY	840003125535553						
LEH-SANDCREEK RAY BROOKLYN	840003011509349			C			
LEH-SANDCREEK RAY HULA	840003126822962			C			
LEH-SANDCREEK ROLAND SHIELA	840003013454518						
LEH-SANDCREEK SALO OZZIE-TW	840003011509322					C	
LEH-SANDCREEK SALOON CHLOE	840003011509633					C	
LEH-SANDCREEK SALT DOS	840003131304387						
LEH-SANDCREEK SHAMR CHELSEA	840003126823068						
LEH-SANDCREEK SHELTON ECHO	840003131304237						
LEH-SANDCREEK SKYMONT SPOOK	840003126822911	C					
LEH-SANDCREEK SL HARRIET-TW	840003011509323					C	
LEH-SANDCREEK THANE TREATY	840003131304326						
LEH-SANDCREEK TJ ALLIUM	840003131304268						
LEH-SANDCREEK ULTRA CHUM	840003126823271						
LEH-SANDCREEK WATSN ASTORIA	840003131304086					C	
LEH-SANDCREEK WATSON MYTH	840003126823002						
LEH-SANDCREEK WATSON TABBY	840003125535560			C		C	
LEH-SANDCREEK WATSON THRUSH	840003126823301					C	
LEH-SANDCREEK WAYLAND ARROW	840003126823252						
LEH-SANDCREEK YANCE HARRI	840003131304269						
LEH-SANDCREEK YANCE RASPY	840003126823044						
LEH-SANDCREEK YANCE SNAPPY	840003131304085						
LEH-SANDCREEK YODER CHEERS	840003131304314						
LEH-SANDCREEK YODER SMARTEE	840003131304172						
LEH-SANDCREEK YODR BRENAGAN	840003131304119						
LEH-SANDCREEK ZMANNER DANA	840003011509487						
LEHOUX GOLDWYN FANNY	CAN 103091597						
LEHOUX GOLDWYN FELICIA-ET	CAN 103999762						3
LEHOUX SHOTTLE MAMY-ET	CAN 103091604	C				C	
LEIBFRIED ABRAHM 475 SHILLO	USA 72021526						
LEIBFRIED ALANDO 631 ALAINA	USA 70145106						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED ALFAFA RICE GRAIN	USA 74056122						
LEIBFRIED ALFALFA 854 PABLO	USA 74056117						
LEIBFRIED ALL-DAY 981 ROYAL	USA 74056165						
LEIBFRIED ALL-DAY BAYDAY	USA 74056150						
LEIBFRIED ALLTOP 382 JESSIE	USA 72021583						
LEIBFRIED ALLTOP625 JUPITER	USA 72021504						
LEIBFRIED ALMOND 313 MIA	USA 72021544					C	
LEIBFRIED ALPABET624 HALLEY	USA 74056106						
LEIBFRIED ALPHABET MARELY	USA 74056146						
LEIBFRIED ALPINE 776 STAPLE	USA 72021621						
LEIBFRIED ALPINE ITALY ROME	USA 72021636						
LEIBFRIED ANY 533 CREAMPUFF	USA 72021575						
LEIBFRIED ANY 631 COLLEEN	USA 72021596						
LEIBFRIED ARCHER768 ARCHERY	USA 74056084						
LEIBFRIED AVENUE CHECKERS	USA 72021637						
LEIBFRIED AVENUE HONEYVUE	USA 72021630						
LEIBFRIED BATES 844 SILKEY	USA 74056170						
LEIBFRIED BATES JILL JACKIE	USA 74056166						
LEIBFRIED BEACON ROSIE RAIN	USA 70145154					C	
LEIBFRIED BEACON STAX SANDY	USA 70145206					C	
LEIBFRIED BINAS AMAN AMANDA	USA 70145167						1
LEIBFRIED BINAS CHIL CHANCE	USA 70145180			C			
LEIBFRIED BOJAGLE OPIUM OJ	USA 70145181						
LEIBFRIED BOJANG904BEATRICE	USA 72021658						
LEIBFRIED BOJANGLES605 MOOZ	USA 70145151						
LEIBFRIED BOULDER BAH-BAH	USA 72021584						
LEIBFRIED BOWSER RUM BOOZE	USA 70145130						
LEIBFRIED BRAWLR358 SAWYER	USA 72021611						
LEIBFRIED BRETT RICE BRETТА	USA 70145138						
LEIBFRIED BRETT YAM YETTA	USA 70145226						
LEIBFRIED BREW 542 TWISTER	USA 72021598			C			
LEIBFRIED BREW 811 MUSIC	USA 74056114						
LEIBFRIED BREW JELLYBEAN	USA 72021590						
LEIBFRIED BREW OPIUM POPPY	USA 72021565						
LEIBFRIED BREWMAS KAYLA KAI	USA 74056132						
LEIBFRIED BREWMAST 832 OMMA	USA 72021692						
LEIBFRIED BREWMAST660 TREKY	USA 72021699						
LEIBFRIED BREWMASTER BLAKE	USA 74056149						
LEIBFRIED BREWMASTER COCOA	USA 74056072						
LEIBFRIED BREWMASTER LORI	USA 72021586						
LEIBFRIED BRIE PARDIE	USA 72021618						
LEIBFRIED BRILL BRAILLE	USA 74056104						1
LEIBFRIED BRISCO 186 SNICKS	USA 70145133						
LEIBFRIED BUILDER 382 JUDY	USA 70145220						
LEIBFRIED BUILDER 421 MARNA	USA 70145191		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED BUTZE 525 BILLIE	USA 72021563						
LEIBFRIED CABR 1031 CRYSTAL	USA 74056181						
LEIBFRIED CABRI 1057 WIGGLE	USA 74056172			C			
LEIBFRIED CABRIO LEA LESLIE	USA 74056151						
LEIBFRIED CABRIOLET CLEO	USA 74056142						
LEIBFRIED CABRIOLET MACI	USA 74056139						
LEIBFRIED CABROLT CLORETTE	USA 74056162						
LEIBFRIED CALVARY CALIPSO	USA 72021638						
LEIBFRIED CALVARY357 COYOTE	USA 72021576			C			
LEIBFRIED CANCUN 835 DOTTIE	USA 74056087						
LEIBFRIED CASSINO 572 ERIN	USA 70145194						
LEIBFRIED CASSINO BRANDY	USA 70145205						
LEIBFRIED CHAMP YOLA YAMP	USA 70145171						
LEIBFRIED CM FRAPPE COFFEE	USA 74056098						
LEIBFRIED CM KAX CHER	USA 74056182						
LEIBFRIED CM MICHELLE MC	USA 72021652						
LEIBFRIED CM MOOZ MOOZ	USA 72021666						
LEIBFRIED CM SHINE SMILE	USA 74056134						
LEIBFRIED COOKIE CABOODLE	USA 74056112						
LEIBFRIED CORY 205 CHANCE	USA 70145122						
LEIBFRIED CORY 561 BUBBLE	USA 70145142						
LEIBFRIED CORY LUSK KANG-TW	USA 70145136						
LEIBFRIED CORY376 SWEETY-TW	USA 70145111						
LEIBFRIED CORY376 TWEETY-TW	USA 70145112						
LEIBFRIED CUCUMBE CASSANDRA	USA 74056135						
LEIBFRIED DAKKER BAY BAKER	USA 74056059						2
LEIBFRIED DEAN HERSEY DILLY	USA 72021600						
LEIBFRIED DEAN LYNDA DAYNE	USA 72021585						
LEIBFRIED DEAN459 MATRON	USA 72021580						
LEIBFRIED DENIM STONED HIGH	USA 72021521						
LEIBFRIED DOT SHIRE SHINE	USA 72021506						
LEIBFRIED DOTS MELODY SONG	USA 72021549				C		
LEIBFRIED DOTSON 957 MARGE	USA 74056092		C				
LEIBFRIED DOTSON MICHELLE	USA 70145120						
LEIBFRIED DURANGO534 KRISGO	USA 74056080						
LEIBFRIED DURANGO617 LURADO	USA 74056082						
LEIBFRIED DURHAM BELLE BAY	USA 70145177						3
LEIBFRIED EARNHAR JOSEPHINE	USA 72021668						
LEIBFRIED EARNHAR WHALE EEL	USA 74056075						
LEIBFRIED EARNHARD849 HEART	USA 74056074						
LEIBFRIED EARNHARDT WYNTER	USA 74056152						
LEIBFRIED EPIC 846 LORENN	USA 72021571						
LEIBFRIED EPIC 878 EPIDEMIC	USA 72021595						
LEIBFRIED EPIC BETHNY EAGLE	USA 72021591						
LEIBFRIED EPIC COOKIE CANDY	USA 72021634						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED EPIC FLAVOR FLORA	USA 72021670						
LEIBFRIED EPIC HONYDW HAZEL	USA 74056073						
LEIBFRIED EPIC RAMP EDSON	USA 72021537						
LEIBFRIED EPIC SAMANTHA	USA 74056081						
LEIBFRIED EPIC SATURN EARTH	USA 74056138						
LEIBFRIED ESCA KIMMIE KAYLA	USA 70145185						
LEIBFRIED ESCALADE300SMIDGE	USA 70145157						
LEIBFRIED FABIO IVY IVA	USA 72021689						
LEIBFRIED FABIO760 FABULOUS	USA 72021639			C			
LEIBFRIED FEVER 271 SANDY	USA 70145105						
LEIBFRIED FEVER 367 FLAVOR	USA 70145148						
LEIBFRIED FEVR WHITE WINKEN	USA 72021528						
LEIBFRIED FOSTER731 CIEANNA	USA 74056110						
LEIBFRIED FRED CREEP FRAPPE	USA 70145179						
LEIBFRIED FREDIE TWIX TAFFY	USA 70145128			C			
LEIBFRIED GALVIN 817 VENUS	USA 72021632						
LEIBFRIED GOLD 987 GOLDEN	USA 74056094						
LEIBFRIED HISTORY 559 WOLLY	USA 72021676						
LEIBFRIED HISTORY618JOCELYN	USA 72021679				C		
LEIBFRIED I WI WINNIE-TW	USA 74056168						
LEIBFRIED INDY SILKEY SINDY	USA 74056069						
LEIBFRIED JANOS 946 CELESTE	USA 74056180			C	C		
LEIBFRIED JANOSCH RAH JAN	USA 72021683						
LEIBFRIED JESSIC WHITE JADE	USA 72021624						
LEIBFRIED JIG PARIS HOLLAND	USA 70145173						
LEIBFRIED JIGSAW 681 JA-JA	USA 70145195						
LEIBFRIED JIGSAW 704JUANITA	USA 70145197						
LEIBFRIED JIGSAW DONNA DORA	USA 70145175						
LEIBFRIED JILL MARGARET	USA 72021566			C			
LEIBFRIED JIVE SATIN SHEETS	USA 70145204						
LEIBFRIED JIVES RAZZ RACHEL	USA 70145227						3
LEIBFRIED JUICE 552 OVAL	USA 72021599						
LEIBFRIED KARSTEN 714 KAX	USA 72021541						
LEIBFRIED KOOL 623 BLANCHE	USA 72021540						1
LEIBFRIED KOOL FLAYR KAYR	USA 72021633						
LEIBFRIED KOOL SELENA SELMA	USA 72021663						
LEIBFRIED LARGE TWIX GRAND	USA 72021500			C			
LEIBFRIED LAYNE 725 LEONA	USA 72021523						
LEIBFRIED LEVI 300 SMOOTHY	USA 72021551			C			
LEIBFRIED LEVI 475 CUDDLE	USA 72021685			C			
LEIBFRIED LEVI SOFTY SAFIRE	USA 70145172			C			
LEIBFRIED LEXOR 741 CLOUD	USA 72021546						
LEIBFRIED LEXOR 850 ALASKA	USA 72021602						
LEIBFRIED LEXOR PAT LEA	USA 72021539						
LEIBFRIED LEXOR TRISH TONI	USA 72021535						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED LEXOR896 GINGER	USA 72021655						
LEIBFRIED LEXOR901 THUNDER	USA 72021656						
LEIBFRIED LOTO ELIZA ZOE	USA 72021609						
LEIBFRIED LOTO RAMP RAMONA	USA 72021642						
LEIBFRIED LOTO SYBIL LYTTLE	USA 72021616						
LEIBFRIED LUCKYC704 JASMINE	USA 74056123						
LEIBFRIED M-O-M2 MALEX M&M	USA 72021522					1	
LEIBFRIED M-O-M2 MALLY MARY	USA 72021536						
LEIBFRIED MALLY DIAMOND	USA 72021623			C			
LEIBFRIED MAN-O 693 PAULINA	USA 70145214						
LEIBFRIED MANNY OLAY OMAR	USA 72021669						
LEIBFRIED MARTIAN MACARONI	USA 70145146						
LEIBFRIED MASSEY 289 OASIS	USA 70145160						
LEIBFRIED MASSEY 609 JELLY	USA 72021556						
LEIBFRIED MASSEY 850 MAZZY	USA 74056067						
LEIBFRIED MASSY382 JEANETTE	USA 72021690						
LEIBFRIED MAXIN ALEX MAXINE	USA 70145121						
LEIBFRIED MICAH WILMAN WI	USA 70145192					C	
LEIBFRIED MICK BARBIE BERRY	USA 72021635			C			
LEIBFRIED MICKEY 1004 MOON	USA 74056173						
LEIBFRIED MICKEY 895 LACEY	USA 74056058						
LEIBFRIED MICKEY 980 PAULEY	USA 74056093						
LEIBFRIED MICKEY BLAST	USA 70145113						
LEIBFRIED MICKEY888CHAUNCEY	USA 72021678						
LEIBFRIED MOKIE1037ENHANCER	USA 74056159						
LEIBFRIED MOM CRISTI CHERYL	USA 72021529						
LEIBFRIED MOONBOY660 TEDDIE	USA 72021550						
LEIBFRIED MUNITION879 BELLA	USA 74056145						
LEIBFRIED MUNITION IVY IDA	USA 74056143						
LEIBFRIED MUNTIN 849 AGATHA	USA 74056177						
LEIBFRIED MUSKETEER LYNDA	USA 74056071						
LEIBFRIED MUSKETER850 ARIEL	USA 74056163						
LEIBFRIED MYST VERSATILE-TW	USA 72021597						
LEIBFRIED MYSTIC 593 SILVIA	USA 74056056						
LEIBFRIED MYTH 754 FRALEIN	USA 74056096						
LEIBFRIED MYTHMORGN MAUREEN	USA 74056079						
LEIBFRIED NALES NUTRITION	USA 74056105						
LEIBFRIED NUCLEAR LYCORICE	USA 70145129					C	
LEIBFRIED O-STYLE 976 ORION	USA 70145143			C			
LEIBFRIED ONWARD 262 JAYLO	USA 70145147						
LEIBFRIED ONWARD HURRICANE	USA 70145140						
LEIBFRIED ONWARD TIFNANY	USA 70145155						
LEIBFRIED PALRMO244 SHAMPOO	USA 70145165						
LEIBFRIED PARADIS262 JAYLIN	USA 72021619						
LEIBFRIED PARKER 490 CANDY	USA 72021507						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED PARKER 638 MILES	USA 70145221						
LEIBFRIED PARKER 999 VERONA	USA 70145141						
LEIBFRIED PARKER MARTIAN	USA 72021530						
LEIBFRIED PARKER OPERA OPAL	USA 72021570						
LEIBFRIED PARKER PARTRIDGE	USA 72021560						
LEIBFRIED PERRY 621 DAKOTA	USA 70145208						
LEIBFRIED PERRY ALICE PLAZA	USA 70145193						
LEIBFRIED PERRY JOSIE POLLY	USA 70145211						
LEIBFRIED PETE AGNES AMBER	USA 70145212						
LEIBFRIED PETE ANDREA ROYAL	USA 70145215						
LEIBFRIED PETRONE 696 PALIN	USA 72021525						
LEIBFRIED PINCHER992 YENNA	USA 74056116						
LEIBFRIED PINCHR 970 PILLOW	USA 74056097						
LEIBFRIED PROPER 660 TUNDRA	USA 70145135						
LEIBFRIED RACER 926 OSTRICH	USA 74056091						
LEIBFRIED RACER 938 SARAH	USA 72021684						
LEIBFRIED RACER POLLY PACER	USA 74056103						
LEIBFRIED RACR 999 RATRIX	USA 74056099						
LEIBFRIED RAINIER WAX WAVY	USA 72021626						
LEIBFRIED RAINIER289 OAKLEY	USA 72021651						
LEIBFRIED RILEY 830 BENTLEY	USA 74056068						
LEIBFRIED RILEY789 SHARON	USA 72021693						
LEIBFRIED RISINGSTR PANTHER	USA 74056156					C	
LEIBFRIED ROAM 343 KARI	USA 72021605						
LEIBFRIED ROBERT 445 WOBBLE	USA 72021557			C			
LEIBFRIED RODGERS888 CARLIE	USA 74056141						
LEIBFRIED ROYAL 936 DORIS	USA 72021657						
LEIBFRIED SAN BREEZY WINDY	USA 72021517						
LEIBFRIED SAN CHIP DORITO	USA 70145170			C			
LEIBFRIED SAN LYN-ANN	USA 70145224						
LEIBFRIED SAN MARS SATURN	USA 70145174						
LEIBFRIED SAN OLAY GOLDIE	USA 70145199						
LEIBFRIED SECURE 374 SALTY	USA 72021514						
LEIBFRIED SECURE OHARE OKAY	USA 70145216						3
LEIBFRIED SHAC ROBO ROSHEK	USA 72021519						
LEIBFRIED SHAKESPERE SHAMOO	USA 74056085						
LEIBFRIED SHAMRCK832SHAZZAM	USA 72021581						
LEIBFRIED SHERIF785 MARSHAL	USA 74056089						
LEIBFRIED SHERRIFF 488 WINE	USA 74056101						
LEIBFRIED SHODOWN654 SHELLY	USA 72021562						
LEIBFRIED SIGNF705 CASCADE	USA 74056125						
LEIBFRIED SIGNIF 508 COOKIE	USA 70145125						
LEIBFRIED SILKEY MILKEY	USA 72021610						
LEIBFRIED SOTO 658 WILLIE	USA 70145161						
LEIBFRIED SPIDERMAN CHERISH	USA 72021654						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

147

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEIBFRIED SPIDERMAN CLEO	USA 72021534						
LEIBFRIED SPIDRMN941 DENISE	USA 74056160						
LEIBFRIED STANTON JEWEL	USA 72021531						
LEIBFRIED STANTON463 SPACEY	USA 72021555		C				
LEIBFRIED STUMPY MECCA	USA 72021662						
LEIBFRIED TEMPO SHAWN SMURF	USA 70145184						
LEIBFRIED TROY 895 LACY	USA 74056167						
LEIBFRIED TROY GRAND GRAY	USA 74056118						
LEIBFRIED TROY M&M MAUI	USA 74056115						
LEIBFRIED TROY1007 CANDYCE	USA 74056137						
LEIBFRIED UPTOWN 878 TUNEY	USA 74056066						
LEIBFRIED UPTWN TONYA UPTON	USA 74056078						
LEIBFRIED VALNTN O-GIRL-RED	USA 72021646						
LEIBFRIED VALNTN723 VALERIE	USA 74056175						
LEIBFRIED WILKEY WILLOW	USA 74056136						
LEIBFRIED WINDBROK409 WINDY	USA 72021527						
LEIBFRIED ZYKE WHALE TUNA	USA 74056176						
LEIJO ALCHEMY CUTIE-RED	840003013001237						1
LEIP-CHES DORCY UNO KAY-ET	USA 59021684			C			
LEIP-CHES DORCY UNO LUPE-ET	USA 59021699			C			
LEIP-CHES MF DORCY DONNA-ET	USA 59021690			C			
LEIP-CHES MF DORCY LYNN-ET	USA 59021696			C			
LEIP-CHES MF DORCY MAY-ET	USA 59021701			C			
LEIP-CHES MF DORCY RAE-ET	USA 59021691			C			
LEIP-CHES MF DORCY SUE-ET	USA 59021697			C			
LEIP-CHES SR DORCY DEE-ET	USA 59021695						
LEIP-CHES SR DORCY DIANN-ET	USA 59021698			C			
LEIP-CHES SR DORCY DOTTI-ET	USA 59021693			C			
LEIP-CHES SR DORCY SALLY-ET	USA 59021694						
LEIP-CHES UNO DORCY DEB-ET	USA 59021687			C			
LEIP-CHES UNO DORCY KAY-ET	USA 59021686			C			
LEIP-CHES UNO DORCY REBA-ET	USA 59021685			C			
LEITZINGER HALOGEN HARLEY	USA 74291816						
LEITZINGER MERIDAN MICHAELA	USA 72614454						
LEITZINGER SUPERSHOT SASHA	840003133821040						
LEITZINGER YODER KARA	USA 74291817						
LEJEUNE CRACKHLM SDN PALOMA	CAN 107882916						
LEJEUNE KINGBOY PIPPA-ET	CAN 109211863						
LEJUNE CRACKHOLM CHARLINE-ET	CAN 108719839						
LEMAJRU FUSION PRALINE P	840003125456461			C			
LEMAJRU JIMBEAU AVA	840003010759170			C			
LEMAJRU TYLERP ANTICIPATION	840003010759151						
LEMAJRU-N AQUILA EVA	840003008352663						
LEMAJRU-N COLTP CHELSEA-RED	840003008352744						
LEMAJRU-N COLTP NEVA	840003010759150						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEMAJRU-N DEANN GIGGLE	840003007043378						
LEMAJRU-N DJANGO JOVIAL	840003134097742						
LEMAJRU-N DJANGO PERDITA P	840003125456532						
LEMAJRU-N DORCY GLAMOUR P	840003013068281						
LEMAJRU-N DYNASTY MIA P	840003125456509						
LEMAJRU-N DYNASTY P POMONA	840003125456466						1
LEMAJRU-N DYNASTY PETTAL P	840003125456520						
LEMAJRU-N ERASER P BETH	840003125456450						
LEMAJRU-N GAMBLER GERDA P	840003125456541						
LEMAJRU-N GARTER IVY	USA 61419044						
LEMAJRU-N GHIRADELLI-ET	840003125456440			C			
LEMAJRU-N HEFTY GUMDROP P	840003125456498						
LEMAJRU-N IOTA EGBERT	840003125456380						
LEMAJRU-N IVAN-PP LILLY-P	840003125456391						
LEMAJRU-N JIMBEAM DECEMBER	840003010759135						
LEMAJRU-N LEVI ZEPHINA	840003010759128						
LEMAJRU-N LITENNG BOPSY	USA 61271732						
LEMAJRU-N MAJOR-P FUN P	840003125456490						
LEMAJRU-N MANDER GWENIVEVE	840003008352654						
LEMAJRU-N MANUEL P BOO P	840003013068314						
LEMAJRU-N MANUEL P EINSET P	840003013068333						
LEMAJRU-N MANUEL P PIA P	840003013068315						
LEMAJRU-N MITEYP JULY-TW	840003007043390						1
LEMAJRU-N MUSCADET GRAPE-ET	840003125456505						
LEMAJRU-N MUSCADET LOLITA P	840003125456480						
LEMAJRU-N OCEAN GREATNESS P	840003125456531						
LEMAJRU-N OHARE SCARLET-ET	840003013068356			C			
LEMAJRU-N PARKER P BEAUTY	USA 142423550						3
LEMAJRU-N PROXY GLADYS	840003010759253						1
LEMAJRU-N PROXY PATTY	840003013068246						
LEMAJRU-N SALVINO LAVERNE	840003125456435						
LEMAJRU-N SELECTION JOKER	840003125456379						
LEMAJRU-N SHAC UDINE	840003010759119						
LEMAJRU-N SHAMROCK GLEE	840003008352756						
LEMAJRU-N SIGNIFP VALEDA	840003007043404						
LEMAJRU-N SUPERSIRE GENESIS	840003010759237						
LEMAJRU-N TRANSFORM GENIVA	840003013068355						
LEMAJRU-N TYLER P SEVEN	840003010759169						
LEMAJRU-N WERTH NUGGET	840003013068272						
LEN-DON ALTABAXTER RUSTY	USA 68935486						
LEN-DON SAMOA MADELINE	USA 71218342			C			
LENEWOOD ANTIQUE MARIBEL	USA 139888245						
LENEWOOD BAXTER FERN	USA 142856466						
LENEWOOD BEACON CASEY	USA 141671745					C	3
LENEWOOD BEACON DEUCE	USA 141397010					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

149

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LENEWOOD BRONCO BOSSY	USA 140915527			C			
LENEWOOD BRONCO CURTSY	USA 140854486						
LENEWOOD BRONCO EBONY	USA 141042723						
LENEWOOD BRONCO FRASER	USA 141042787			C			
LENEWOOD BRONCO HELENE	USA 141396886						
LENEWOOD BRONCO JAMIE	USA 140915554			C			
LENEWOOD BRONCO LUANNE	USA 141397177						
LENEWOOD BRONCO PEARL	USA 141167477						
LENEWOOD BRONCO TIMMI	USA 140854477						
LENEWOOD DEANN TIDY	USA 141042705			C			
LENEWOOD KRAMER CHIP	USA 141042750						
LENEWOOD MILLION ODETTE	USA 141396989						
LENEWOOD MILLION ORPAH-TW	USA 140393424		C				1
LENEWOOD MILLION VONDA	USA 140261011		C				
LENEWOOD MOM2 DIXIE	USA 142856475						
LENEWOOD PRONTO ZENA	USA 140260896						
LENEWOOD SHOTTLE MAGIC	USA 142353525					C	
LENEWOOD TOYSTORY NORA	USA 140508330						
LENKAITIS BRAXTON BERNITA	USA 69130652						3
LENKAITIS CORPORAL CALI-RED	840003132363909						
LENKAITIS HARPER MILLY-P	USA 143137388						
LENKAITIS LB RAE-ET	USA 68810516						
LENKAITIS LYPOLL RAE-RED-ET	USA 68810514						
LENKAITIS LYPOLL RAVE-ET	USA 68810515						
LENKAITIS PARKER OIL	840003124610471						
LENTVIEW DREAMER RYLIE	USA 142634912						
LENZWAY RHAPSODY ROXANA-ET	USA 140801406						1
LEO-HOLME ATTITUDE SAN FRAN	USA 142456246						
LEONA-VIEW TERRASON DANDY	USA 61977613						
LEOTHE BAXTER DAPHNEE	CAN 105456912						
LEOTHE DESTINY CRI-ET	USA 70273039						
LEOTHE GOLD DARCY CRI-ET	USA 70273049						
LEOTHE GOLD DARVA CRI-ET	USA 70273050						
LEOTHE MANOMAN DELPHINE-ET	CAN 106300545						
LEOTHE MR SAM DELLY	CAN 103702811						
LEOTHE SNOWMAN DULCINEE	CAN 107257604						
LEOTHE SUDAN DIFFERANTE-ET	CAN 107647874						
LEPACHA SUDAN LOVERINE-ET	CAN 107922961						
LEPAK CHEVROLET AWSOME-ET	USA 73635302						
LEPAK CHEVROLET CHIFFON-ET	USA 73635301						
LEPAK CHEVROLET CUPCAKE-ET	USA 73635341						
LEPAK CHEVROLET JUBILEE-ET	USA 73635275						
LEPAK CHEVROLET LETTIE-ET	USA 73635296						
LEPAK CHEVROLET ROLETTE-ET	USA 73635295						
LEPAK COLT P SHOW-GIRL-RED	USA 70620813						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

150

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEPAK DEFENDER JUICE-ET	USA 73635343						
LEPAK DOORMAN DYNAMITE	840003128913443						
LEPAK EPIC EMERALD-ET	USA 71596020						
LEPAK GALAXY CHEERIO-ET	USA 73635214						
LEPAK GALAXY RADIANT-ET	USA 72659215						
LEPAK GALAXY RAVISHING-ET	USA 72659212						
LEPAK JACEY CRI 1629-ET	USA 73635235						
LEPAK JACEY CRI OUTRAGEOUS	USA 73635216						
LEPAK JACEY CRI SAPPHIRE-ET	USA 73635241						
LEPAK KINGBOY CROWN-ET	840003128913285						
LEPAK LOTTOMAX LOTION-ET	840003128913341						
LEPAK MCCUTCHEN PEACHCOBB	840003128913319						
LEPAK MERIDIAN MISS-ME-ET	USA 71596065						
LEPAK MISSOURI BARBIE-ET	840003128913422						
LEPAK MOGUL MOONLIGHT	USA 71596050						
LEPAK MONTEREY CHASTITY-ET	840003128913328						
LEPAK MONTEREY MOTION-ET	840003133187119						
LEPAK MONTEREY MOVEMENT-ET	840003133187118			C			
LEPAK MUSCADET SUGAR	840003128913423						
LEPAK OAK OAK-TREE-ET	USA 73635210						
LEPAK SHERAC CHIMES-ET	USA 71595983						
LEPAK SILVER ODELL-ET	840003128913438			C			
LEPAK SILVER SPARKLE-ET	840003128913434						
LEPAK SPARK IGNITE-ET	840003133187142						
LEPAK TATUM TWIX	USA 73635383						
LEPESKA WINKEN JUBILEE	USA 18007906						
LEROY LAURA	ITA 20990513073						
LES-AL ALLEN SUGAR	USA 136897345						
LES-AL DAMION DIXIE	USA 139943782						
LES-AL OUTSIDE DANCY	USA 136897318						
LES-AL ROY MINNIE	USA 135750160						
LES-LIN ADVENT WYLEEN-ET	USA 140108679						
LES-MAR-ACRES ASTRON GORJUS	USA 136337722						
LES-MAR-ACRES FEVER AMAZE P	USA 141651189						
LES091 BAXTER MODEL RUBIS	CAN 104883111						
LES091 GOLDWYN MODEL IRIS-ET	CAN 103568312						
LESMAR BUICK 36420	840003134443944						
LESMAR CASHMONEY INDIANA-ET	840003011889766						
LESMAR DAD MAID OF HONOR-ET	840003010975666		C				3
LESMAR DADDY MADONNA-ET	840003010975105		C				3
LESMAR DADDY MAGNOLIA-ET	840003010975645		C				
LESMAR DADDY MASS APPEAL-ET	840003010975684						3
LESMAR DOMAIN MYSTIQUE-ET	840003006989441						1
LESMAR DONATELLO 34121	840003131668285						1
LESMAR DONATELLO 9528	840003011889776						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

151

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LESMAR FREDDIE ELMIRA 5337	840003006988964					C	
LESMAR HEADLINER 3370	840003124024659						
LESMAR LEXOR 3003	840003124024292						1
LESMAR MANIFOLD 8697	840003010975494						
LESMAR MARSO 33918	840003127602610						1
LESMAR MARSO 4727-TW	840003127422351						
LESMAR MARSO 4728-TW	840003127422352						
LESMAR MIDNIGHT 3715	840003124025004		C				3
LESMAR OLYMPIAN 4184	840003127421808						
LESMAR ROBUST MARIGOLD-ET	840003006989465						1
LESMAR ROBUST MARLEY-ET	840003006989474						1
LESMAR ROBUST MATEA-ET	840003006989467						
LESMAR SALVATORE INSPIRE-ET	840003011890218						
LESMAR SHAN 2703	840003013464325						
LESMAR SMOKIN JO 9074-ET	840003011889322						
LESMAR SMOKIN JO HAALEE-ET	840003011889339						
LESMAR SMOKIN JO HADARA-ET	840003011889338						
LESMAR SMOKIN JO HARMONI-ET	840003011889335						
LESMAR SMOKINJO HAILMARY-ET	840003011889308						
LESMAR THE DUDE 35559	840003133106849						1
LESMAR WILLIE 34177	840003131668341						3
LESMAR WINDBROOK MAPLE-ET	840003006989610						2
LESPEREE BOLTON GESKA-ET	CAN 105638842						1
LESPEREE GERARD GESSICA	CAN 106653669						
LESPEREE MANIFOLD GESTRIE	CAN 107169917			C			1
LESPERRON CONVINCER LARIANA-ET	CAN 9108185						
LESPERRON COUSTEAU LIAURA	CAN 9108194	C					
LESPERRON EMMELINE-RED-ET	CAN 105078447						3
LESPERRON LARA STORMATIC-ET	CAN 101287669						
LESPERRON MARSHALL DANE-ET	CAN 7351055						1
LESPERRON SHOTTLE ANOUKA-ET	CAN 105656830					C	
LESPERRON SHOTTLE LAVAGIRL-ET	CAN 103320635						
LESPERRON SHOTTLE SPLEND-ET	CAN 105523669						
LESPERRON STORMATIC LAUR-ET	CAN 101678054	C					1
LESPERRON UNO DAZZ-ET	CAN 107645666						
LEUER SHOTTLE MARYEE	USA 70243052						
LEUER SUPER APRIL	USA 141528083						
LEVASH BOLTON SNOW	USA 138899491		C				
LEVASH BOLTON TINA	USA 138693992						
LEVASH CALVIN KALIAH	USA 141808125						
LEVASH CHINOOK CARIBBEAN	USA 140881411						
LEVASH CHINOOK LOLITA	USA 140905070						
LEVASH EPIC BROOKLYN	USA 142282674						
LEVASH EPIC JOCELYN	USA 142282665						
LEVASH EPIC KAREN	USA 142052947						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEVASH EXPLODE KIANNA	USA 141202563						
LEVASH JUDD KIAH	USA 60920110						
LEVASH SHAMROCK CHERYL	USA 141822897						
LEVASH SHAMROCK TRACEY	USA 141822909						
LEVEL-PLAIN 1ST CLASS	840003128890286						
LEVEL-PLAIN 1ST JOLLY-TW	840003128890292						
LEVEL-PLAIN 1ST JULIE-TW	840003128890293						
LEVEL-PLAIN AND DEN	USA 71700218						
LEVEL-PLAIN ASPEN DANA-ET	USA 72606649						
LEVEL-PLAIN BEACON CANNY	USA 69952675					C	
LEVEL-PLAIN BEACON DEVA-ET	USA 69952701						
LEVEL-PLAIN BELAIR CISCO	840003133318704						
LEVEL-PLAIN BELAIR PREA	840003133318702						
LEVEL-PLAIN BELUGA DITZY-ET	USA 72606695			C			
LEVEL-PLAIN BLSTO DESTROY-ET	USA 72606692						
LEVEL-PLAIN BOGUL STAT	USA 71700215						1
LEVEL-PLAIN BOOK DIZZY-ET	USA 70790931						
LEVEL-PLAIN BOOKEM DELI-ET	USA 69952694						
LEVEL-PLAIN BOOKEM DELL-ET	USA 69952695						
LEVEL-PLAIN BOOKEM JELLY	USA 69952700						
LEVEL-PLAIN BOW DESIRE-ET	USA 69952680						
LEVEL-PLAIN BOWSER DAREL	USA 69952664						
LEVEL-PLAIN BRET CONNIE	USA 62343011						
LEVEL-PLAIN BRETT DAZA	USA 69952687						
LEVEL-PLAIN BURT COASTER	USA 63200270						
LEVEL-PLAIN CASCADE DOINK	USA 72606653						
LEVEL-PLAIN CHOPS TAMZM	840003133318714						
LEVEL-PLAIN CHOPS COWABUNGA	840003133318724						
LEVEL-PLAIN CHOPS DENTEN	840003133318716						
LEVEL-PLAIN CHOPS DUECS	840003133318725						
LEVEL-PLAIN CHOPS PIDDY	840003133318727						
LEVEL-PLAIN CM VAN	USA 71700192						
LEVEL-PLAIN DAMARUS CENT-TW	840003128890282						
LEVEL-PLAIN DANCER DEAL	USA 71700174						
LEVEL-PLAIN DELTA VIOLET	840003133318723						
LEVEL-PLAIN DELTA VIXEN	840003133318719						
LEVEL-PLAIN DIS CANAL	840003133318708						
LEVEL-PLAIN DIS JENNY	840003133318720						
LEVEL-PLAIN DM DEISEL	USA 70790951						
LEVEL-PLAIN DM DISK-ET	840003128890261						
LEVEL-PLAIN DMRUS CHANCE-TW	840003128890281						
LEVEL-PLAIN DRACO DANA	840003133318705						
LEVEL-PLAIN DRACO DARBI	840003133318706						1
LEVEL-PLAIN DRACO DUPED	840003133318713						
LEVEL-PLAIN EARN DOLLY-P-ET	USA 72606648						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

153

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEVEL-PLAIN ECOYNE CAKE-ET	USA 71700180						
LEVEL-PLAIN ECOYNE CITI-ET	USA 71700185						
LEVEL-PLAIN ECOYNE COLA-ET	USA 71700184						
LEVEL-PLAIN ECOYNE COLLY-ET	USA 71700181						
LEVEL-PLAIN EPIC DEARY	USA 70790977						
LEVEL-PLAIN ERNHT DELUTE-ET	USA 71700216						
LEVEL-PLAIN EY LUCKY-RED-ET	USA 64479503						
LEVEL-PLAIN GERARD DAISY-ET	USA 69952667						
LEVEL-PLAIN GERARD DARBY-ET	USA 69952668						
LEVEL-PLAIN GONZO DEAR	USA 73425755						
LEVEL-PLAIN GONZO DEMI-ET	USA 70790968						
LEVEL-PLAIN HEAD COIN	USA 71700220						
LEVEL-PLAIN IOTA CARESS	USA 70790978						
LEVEL-PLAIN J STREAM DICE	USA 64479520						
LEVEL-PLAIN JACEY CHARLY	USA 73425759						
LEVEL-PLAIN JACEY CRITTER	USA 73425758						
LEVEL-PLAIN JEEVES CAROLYN	USA 66546267						
LEVEL-PLAIN JIVES CADY-ET	USA 70790954						
LEVEL-PLAIN JIVES CARMi-ET	USA 70790959						
LEVEL-PLAIN JOSUP CARTER-ET	840003128890287						
LEVEL-PLAIN JOSUP CHERRY-ET	840003128890290						
LEVEL-PLAIN JOSUP CHOMP-ET	840003133318707						
LEVEL-PLAIN JOSUP CLEO-ET	840003128890291						
LEVEL-PLAIN JOSUP COSTLY-ET	840003128890265						
LEVEL-PLAIN JOSUP DAFADIL	840003133318721						
LEVEL-PLAIN JUMP COWZ	840003133318728						
LEVEL-PLAIN JUMP DOTY-ET	840003133318718			C			
LEVEL-PLAIN LITH CECE-ET	USA 71700208						
LEVEL-PLAIN LITH CELO-ET	USA 71700207						
LEVEL-PLAIN LITH DOLLY	USA 71700211						
LEVEL-PLAIN LITH DOZEN-ET	USA 72606647						
LEVEL-PLAIN LITH DUCE-ET	USA 72606646						
LEVEL-PLAIN LITHIUM CAMO-ET	USA 71700205						
LEVEL-PLAIN LITHIUM DELO-ET	USA 71700219						
LEVEL-PLAIN LWNBOY JESS-RED	USA 66546277						
LEVEL-PLAIN MARICO-CUBBY-ET	USA 69952659						
LEVEL-PLAIN MASS CASS	840003128890247						
LEVEL-PLAIN MAU DEJA-ET	USA 72606659						
LEVEL-PLAIN MAU DINA-ET	USA 72606660						
LEVEL-PLAIN MAU DRIZZLE-ET	USA 72606663						
LEVEL-PLAIN MAY CALLIE-ET	USA 73425770						
LEVEL-PLAIN MNT CALAMENT-ET	840003128890284						
LEVEL-PLAIN MOM DANCER	USA 70790942						
LEVEL-PLAIN MOMAN CAMIE-ET	USA 69160463						
LEVEL-PLAIN MOMAN CAMILE-ET	USA 69160464						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

154

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEVEL-PLAIN MON DANISH	840003128890248						
LEVEL-PLAIN MONT CELTIC-ET	840003128890279						
LEVEL-PLAIN MONT CHEDDAR-ET	840003128890288						
LEVEL-PLAIN MONT CLANK-ET	840003128890271						
LEVEL-PLAIN MONT CLASP-ET	840003128890272						
LEVEL-PLAIN MONT COCO-ET	840003128890289						
LEVEL-PLAIN MONT COTTON-ET	840003128890268						
LEVEL-PLAIN MONT DEAMA	840003133318703						
LEVEL-PLAIN MONTEREY DEE	840003128890269						
LEVEL-PLAIN MOSCOW DOODLE	USA 66546249						
LEVEL-PLAIN NOMAN CUPID-ET	USA 69160474						
LEVEL-PLAIN OAK CURTY	USA 73425762						
LEVEL-PLAIN OAK DOE-ET	USA 72606684						
LEVEL-PLAIN OAK DOES-ET	USA 72606687						
LEVEL-PLAIN OAK DUNCAN	USA 72606682						
LEVEL-PLAIN OAK VAM-TW	USA 72606691						
LEVEL-PLAIN OAK VAT-TW	USA 72606690						
LEVEL-PLAIN OB TEA	USA 69952705						
LEVEL-PLAIN OBSERVER DEE	USA 73425748						
LEVEL-PLAIN PLANET DAPHNE	USA 66546279						
LEVEL-PLAIN RAVISH DALLY-ET	USA 69952691						
LEVEL-PLAIN RAVISH DANA-ET	USA 69952688						
LEVEL-PLAIN ROBUST CUPPY	USA 71700179						
LEVEL-PLAIN ROBUST JUICE	USA 73425769						
LEVEL-PLAIN ROLAND DOTZ	USA 69952704						
LEVEL-PLAIN SENECA DELTA	USA 73425760						
LEVEL-PLAIN SENECA DIMMI	USA 73425763						
LEVEL-PLAIN SHAME DOTTY	USA 70790967						
LEVEL-PLAIN SNECA SALLY-RED	USA 73425766						
LEVEL-PLAIN SNOWMO DAPPER	USA 72606677						
LEVEL-PLAIN SNOWMO DART-ET	USA 72606670			C			
LEVEL-PLAIN SNOWMO DOC-ET	USA 72606674						
LEVEL-PLAIN SNWMO DAKKER-ET	USA 72606678						
LEVEL-PLAIN SS VALLEY	840003133318726						
LEVEL-PLAIN SSHOT CONE-ET	840003128890256						
LEVEL-PLAIN SUPR CURTAIN-ET	USA 69160487						
LEVEL-PLAIN TANGO CALLI	USA 73425756						
LEVEL-PLAIN TANGO DANCE	USA 73425750		C				
LEVEL-PLAIN TONIC DESEE	USA 70790944						
LEVEL-PLAIN UNO DOSE-ET	USA 71700190						
LEVEL-PLAIN WILL DILL	USA 73425768	C					
LEVEL-PLAIN YO COLLAR-ET	840003128890250						
LEVEL-PLAIN YO COLLECT-ET	840003128890251						
LEVEL-PLAIN YO CONNIE-ET	840003128890249						
LEVEL-PLAIN YO CONSTENT-ET	840003128890252						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEVEL-PLAIN ZYKE CUPBOARD	840003133318711						
LEVEL-PLAIN ZYKE TEENA	840003133318712						
LEW-DREAMS ZENITH JUNE-ET	USA 63100780						
LEW-LIN ADOLPH 889N	USA 61715184						
LEW-LIN GUSTO 792B	USA 61168867						
LEW-LIN INTEGRITY 927J	USA 61715222						
LEW-LIN JAMES 922O	USA 61715217						
LEW-LIN KINGBOY WINDS-ET	840003128485065						
LEW-LIN KINGBOY WINDY-ET	840003128485053						
LEW-LIN WATSON JEKYLL	USA 70506201			C		C	
LEW-MAX CROWN 5172	USA 71235177						1
LEW-MAX DEFENDER 5910	USA 74326490						
LEW-MAX ENID 5816	USA 73464808						
LEW-MAX GULF 5966	USA 74326546						
LEW-MAX GULF 5967	USA 74326547						
LEW-MAX GUST 6121	840003131907517		C				
LEW-MAX HALOGEN 5917	USA 74326497						
LEW-MAX MAXUM 5648-ET	USA 72644873						
LEW-MAX MORGAN	USA 72644865					C	
LEW-MAX MORGAN 5645-ET	USA 72644870						
LEW-MAX MORGAN 5742-ET	USA 73464734					C	
LEW-MAX MOVIRUSH 12153-ET	840003124889632						
LEW-MAX MOVIRUSH 12154-ET	840003124889633						
LEW-MAX O MAN 2543	USA 62315208						
LEW-MAX O MAN 2637	USA 62799434						
LEW-MAX PARTYROCK 5819	USA 73464811						
LEW-MAX PARTYROCK 5848	USA 73464840						
LEW-MAX PATRIOT 5355	USA 72019134						
LEW-MAX PETRONE 6272	840003131907668						
LEW-MAX REFLECTOR 5938	USA 74326518						
LEW-MAX ROLAND 5598	USA 72644823						
LEW-MAX SHAN	USA 72644813						
LEW-MAX SHAN 5636	USA 72644861						
LEW-MAX SHOTGLASS	USA 72644832						
LEW-MAX SHOTGLASS 5644-ET	USA 72644869						
LEW-MAX SHOTGLASS 6079-ET	USA 74326659						
LEW-MAX SKYMONT 5945-ET	USA 74326525						
LEW-MAX WATSON 5920	USA 74326500			C			
LEW-MAX WOW Z 3765 12868	840003127566234						
LEW-MAX YODER 6139	840003131907535						
LEWISDALE EASTSIDE GOLD ACURA	CAN 9971606		C				3
LEWISDALE EASTSIDE GOLD AMA-ET	CAN 7789807						
LEWISDALE EASTSIDE MISSY-ET	CAN 9900349						3
LEWISDALE EASTSIDE SID PERF-ET	CAN 11219249						
LEXIS GOLDWYN GEORGIE-ET	CAN 9617260						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEXIS IOTA MAXIM-ET	CAN 7433681						
LEXIS SHOTTLE GENA-ET	CAN 9816394						
LEXPERRON SHOTTLE SPLASH-ET	CAN 104483624						
LEXVOLD ALDA FERN-ET	USA 142523531						
LEXVOLD BAXTER IZZY-ET	USA 53437343						
LEXVOLD BELLWOOD CARRIE-ET	USA 15797089						
LEXVOLD BELLWOOD HO-HO-ET	USA 15971369						
LEXVOLD BELUGA CARITA-ET	USA 142792537						
LEXVOLD BENATAR BELINDA	USA 56337255						1
LEXVOLD BOMBERO CARI-ETS	840003124584897						
LEXVOLD BOMBERO CARLY-ETS	840003124584896						
LEXVOLD BOWSER IGRAINE	USA 70832201						3
LEXVOLD BRAXTON HOLLY	USA 56337203	C					
LEXVOLD CAMERON ARELLA-ET	USA 56337267						
LEXVOLD CAMERON ARIEL-ET	USA 56337266					C	
LEXVOLD CAMERON AUBREY-ET	USA 56337265					C	
LEXVOLD CARSON CASHLEY	840003130395142						
LEXVOLD CASHCOIN CELINE-ET	USA 142706248						
LEXVOLD CASHCOIN CLAUS-ET	USA 142664575						
LEXVOLD CASHCOIN FAWN	USA 142880751						1
LEXVOLD CHAMBRIC FELICE-ET	USA 56337230						
LEXVOLD CRANK-IT DASH-ET	840003130395125						
LEXVOLD DEFENDER ANITA-ET	USA 142969933						
LEXVOLD DEFENDER CLASS-ET	840003124584695						
LEXVOLD DEFENDER CLASSIC-ET	840003124584754						
LEXVOLD DEFENDER CLASSY-ET	840003123886027						
LEXVOLD DEFENDER FREE-ET	840003124584783						
LEXVOLD DEFENDER FREEDOM-ET	840003123886017						
LEXVOLD DEFENDER FURY-ET	USA 143026260						
LEXVOLD DEFENDER FUTURE-ET	USA 143026288						
LEXVOLD DEFENDER REGAN-ET	USA 142920392						
LEXVOLD DEFENDER RENAE-ET	USA 142920404						
LEXVOLD DETERMINE DEIDRA-ET	840003130395127						
LEXVOLD DETERMINE DELI-ET	USA 142664584						
LEXVOLD DIAMOND SPRING-ET	USA 142811128					C	
LEXVOLD DOMAIN HONEY	USA 56337206						
LEXVOLD DORCY HEV	USA 142523522						
LEXVOLD DORCY ILA	USA 142523513						
LEXVOLD EARNHARDT GREEN	USA 143285429						
LEXVOLD ECHO CRI-ET	USA 72115587			C			
LEXVOLD EILEEN CRI-ET	USA 72115588			C			
LEXVOLD ENFORCER FLOWER-ET	USA 142624737						
LEXVOLD ENTAIL CUTIE-ET	840003130395129						
LEXVOLD ENTAIL RENE-ET	840003124930909			C			
LEXVOLD ENTAIL ROX-ET	840003124930908			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

157

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEXVOLD FEVER BESS	USA 56337218						
LEXVOLD FEVER ZEMA	USA 56337220						
LEXVOLD FLAME COLETTE-ET	840003125202009						
LEXVOLD GOLD CHIP CORAL	USA 56337279						
LEXVOLD HUNGER GINNY-ET	USA 142733693						
LEXVOLD HUNGER GRACE-ET	USA 142728178						
LEXVOLD HUNGER LIBBY-ET	USA 142920413						
LEXVOLD IOTA ALLIE	USA 56337219						
LEXVOLD IOTA HYSTER	USA 56337205						
LEXVOLD JABIR SAMARA-ET	USA 142792564						
LEXVOLD JABIR SHARMIN-ET	USA 142792555						
LEXVOLD JACEY FANCY-ET	USA 142824427						
LEXVOLD JACKMAN FOREVER	USA 143144252						
LEXVOLD JACKMAN SUE	USA 143183062			C			
LEXVOLD LA-BRON CAPRI-ET	840003124584922						
LEXVOLD LA-BRON CAVALIER-ET	840003124584960						
LEXVOLD LABRON CLEVELAND-ET	840003124584966						
LEXVOLD LEAF CANDY-ETS	840003130395134						
LEXVOLD LEAF CUPCAKE-ETS	840003130395135						
LEXVOLD LEAF FINESS-ET	840003124930910						
LEXVOLD LEAF RACHEL-ET	USA 143328111						
LEXVOLD LEAF RITA-ET	USA 143370873			C			
LEXVOLD LEAF RUBY-ET	USA 143328148			C			
LEXVOLD LEWIS SHANIA-ET	USA 56337217						
LEXVOLD LEWIS SHELBY-ET	USA 56337208						
LEXVOLD LEXOR BARB	USA 142595701						1
LEXVOLD LIQUOR BROOK-ET	USA 56337232						
LEXVOLD LITTLTON CAGLE-ET	USA 143382359						
LEXVOLD LITTLTON CANTINA-ET	USA 143382340						
LEXVOLD LITTLTON CASSA-ET	USA 143382368						
LEXVOLD LOTTOMAX BANNER-ET	USA 143236751						
LEXVOLD LOTTOMAX BEAMER-ET	USA 143236760						
LEXVOLD MAURICE BRENNNA	USA 142920468					C	
LEXVOLD MAXUM SATCH	USA 56337278						
LEXVOLD MCUTCHEN IDA-ET	USA 56337288						
LEXVOLD MCUTCHEN INA-ET	USA 56337289						
LEXVOLD MCUTCHEN IOLA-ET	USA 56337290						
LEXVOLD MCUTCHEN IONE-ET	USA 56337291						
LEXVOLD MERIDIAN MARCH	USA 142497405	C					
LEXVOLD METEOR BEAUTY-ET	USA 52852294						
LEXVOLD MHWK FLORRY 117-ET	840003013659202			C			
LEXVOLD MISSOURI GRACIE-ET	840003130395122					C	
LEXVOLD MISSOURI GWEN-ET	840003130395123					C	
LEXVOLD MOHAWK FAY-ET	USA 142811119			C			
LEXVOLD MONTROSS ANGEL	USA 143144243						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEXVOLD MONTROSS BARBIE-ET	USA 143061142						
LEXVOLD MONTROSS BERTA-ET	USA 143061160						
LEXVOLD MONTROSS CAPRICE-ET	840003125201992						
LEXVOLD MONTROSS CARESS-ET	840003125202041						
LEXVOLD MONTROSS CARILLA-ET	840003125201985						
LEXVOLD MONTROSS INTRIGUE	USA 143098494						
LEXVOLD MONTROSS TERRY-ET	USA 143026297						
LEXVOLD MONTROSS TONI-ET	USA 143026309						
LEXVOLD MONTROSS TORI-ET	USA 143026318						
LEXVOLD NUMBER ONE BEE-ET	USA 56337237						
LEXVOLD NUMBER ONE BELLE-ET	USA 56337238						1
LEXVOLD NUMBER ONE BLISS-ET	USA 56337241						
LEXVOLD OAK 3655-ET	840003126078629						
LEXVOLD OAK DAYLILY-ET	USA 142706257						
LEXVOLD OAK DEE-ET	USA 142624698						
LEXVOLD OAK DICEY-ET	USA 142706239						
LEXVOLD OAK FOXY-ET	USA 142689275						
LEXVOLD OAK PASSION-ET	USA 73390764						
LEXVOLD OAK PEACHES-ET	840003126983206						
LEXVOLD OAK PRICE-ET	USA 73390765						
LEXVOLD OAK SERENITY	USA 143285401						
LEXVOLD OBSERVER BANNER	USA 143098506						
LEXVOLD OBSERVER ISABEL	USA 57253049						
LEXVOLD OBSERVER JOANIE	USA 56337228						
LEXVOLD OBSERVER MIXUP	USA 56337298						
LEXVOLD OBSERVER NIKKI	USA 56337258						
LEXVOLD OBSERVER SWEET	USA 143285410						
LEXVOLD PARADISE CRI-ET	USA 72115598						
LEXVOLD PETRONE BAMA-ET	USA 56337270						
LEXVOLD PETRONE CUDDLE	USA 56337299		C				
LEXVOLD PETRONE TRACY-ET	USA 56337264						
LEXVOLD PREDESTIN FAMOUS-ET	USA 142624689						
LEXVOLD PREDESTIN FARRAH-ET	840003132676794						
LEXVOLD PULSAR CASUAL-ET	USA 143328184						
LEXVOLD SAJAC ECHO-ET	USA 56337281						
LEXVOLD SAJAC ELISE-ET	USA 56337282			C			
LEXVOLD SHAKESPEARE ERIKA	USA 142868223						
LEXVOLD SHAMROCK ASTEROID	USA 143098485						
LEXVOLD SHAMROCK BRITTA	USA 56337207						
LEXVOLD SHAMROCK EMILY	USA 142595710						
LEXVOLD SHAMROCK HOORAY	USA 142395600						
LEXVOLD SHAMROCK IRIS-ET	USA 56337292						
LEXVOLD SHAMROCK IRISH	USA 56337214						
LEXVOLD SHAMROCK IRITA-ET	USA 142357145						
LEXVOLD SHAMROCK ISABEL-ET	USA 56337293						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

159

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEXVOLD SHAMROCK JONAH	USA 56337296						
LEXVOLD SHAMROCK MACY	USA 142422568						
LEXVOLD SHAMROCK MAGGIE	USA 142596092						
LEXVOLD SHAMROCK MESA	USA 56337295						
LEXVOLD SHAMROCK MOLLY	USA 143183044						
LEXVOLD SHAMROCK PROVO	USA 56337271						
LEXVOLD SHAMROCK SHEILA	USA 56337216						
LEXVOLD SHAMROCK TESHIA	USA 56337294						
LEXVOLD SHAN 7696-ET	USA 72737751						
LEXVOLD SHAN ANN	USA 142595729						
LEXVOLD SHAN ETTA-ET	USA 142497393						
LEXVOLD SHERAC CARLA-TW	USA 56337246						
LEXVOLD SHERAC CARLY-TW	USA 56337247						
LEXVOLD SHERAC FLORA-ET	USA 56337223						
LEXVOLD SHERAC FLORRY-ET	USA 56337225						
LEXVOLD SHERAC FLOSSY-ET	USA 56337224						
LEXVOLD SHERAC FONDA-ET	USA 56337227						
LEXVOLD SHOTGLASS BREA-TW	USA 143370846						
LEXVOLD SHOTGLASS BREE-TW	USA 143370837						
LEXVOLD SHOTGLASS JC	USA 143317485						
LEXVOLD SILVER GLACIER	840003130395149						
LEXVOLD SPRING DAISY-ET	840003130395147						
LEXVOLD SPRING DIAMOND-ET	840003130395133						
LEXVOLD SSI ALDA 8248-ET	840003009554771						
LEXVOLD SSI MASSEY 8602-ET	840003011001506						
LEXVOLD SUPER ELAINE	USA 56337215						
LEXVOLD SUPER IVORY-ET	USA 52852258						
LEXVOLD SUPERLARG TASHA-ET	USA 56337263						
LEXVOLD SUPERSIRE ELIZA-ET	USA 56337285						
LEXVOLD SUPERSONIC BECKY-ET	USA 56337254						1
LEXVOLD SUPERSONIC BESS-ET	USA 56337253						1
LEXVOLD SUPRSHOT PETUNIA-ET	840003130395132						
LEXVOLD SYMPATICO JANE-ET	USA 142624773			C			
LEXVOLD SYMPATICO JULE-ET	USA 142624719						
LEXVOLD TANGO AVA-ET	USA 73297068		C				
LEXVOLD TANGO CORA-ET	USA 142792667						
LEXVOLD TANGO DENA-ET	USA 142762291						
LEXVOLD TANGO LAUREN-ET	USA 142920459		C				
LEXVOLD TANGO LEIGH-ET	USA 142880760						
LEXVOLD TANGO LORELLE-ET	USA 142920440		C				
LEXVOLD TANGO LOVE-ET	USA 142792685						
LEXVOLD TANGO TRISHA-ET	USA 73297075						
LEXVOLD TEMPO 501	USA 56337204						
LEXVOLD TEMPO HUSH	USA 56337222						
LEXVOLD TEMPO M-6-B	USA 56337221						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LEXVOLD TEMPO MONDAY	USA 56337213						
LEXVOLD TOPROCK LACEY-ET	USA 142664593						
LEXVOLD TOPROCK LEAH-ET	USA 142689293						
LEXVOLD UNO BAY-ET	USA 143183138						
LEXVOLD UNO BIANCA-ET	USA 56337272		C				
LEXVOLD UNO BREE-ET	USA 143285399						
LEXVOLD YODER BABE-ET	USA 143195623						
LEXVOLD YODER BABI	USA 143370855						
LEXVOLD YODER BARBIE-ET	USA 143183035						
LEXVOLD YODER BELLA	840003130395126						1
LEXVOLD YODER ELLE	USA 143236733						
LEYVIEW BOLTON CJ	USA 65533722						
LEYVIEW PLANET EMILY-ET	USA 70306978						
LEYVIEW PLANET PEARLY-ET	USA 70306987						
LEYVIEW PRONTO CAMREN-ET	USA 65533736						
LEYVIEW PRONTO CORAL-ET	USA 66915049						
LGW SHOTTLE FIONA-ET	USA 66555086					C	
LH-FH PATSY-ET	USA 69575571						1
LIAN EIG J BLONK	NLD 495826271	C					
LIB-K WICKHAM MALAWI	840003131104746						
LIBBY	DEU 769154260						
LIBERTY-GEN MAYFIELD DESTIN-ET	CAN 11523080			C			
LIBERTY-GEN UNO ALEAH	CAN 11905999						
LIBERTYRAES GOLDEN GIRL-ET	USA 138743893						1
LIBERTYRAES GOLDIELOCKS-ET	USA 137592672						
LIBRAE MANFRED SATIN-ET	USA 128221846	C					
LIBRAE RM BEAN-RED-ET	USA 138566799						
LICHTY DEBONAIR ASTRID-RED	USA 66861431						
LIDA-ACRES ATWD KINKY-ET	USA 72051628						
LIDA-ACRES BAXTER ELLA	USA 55561305						
LIDA-ACRES DAMION ALI	USA 55561354						
LIDA-ACRES DAMION ANNA-ET	USA 51421295						
LIDA-ACRES DUNDEE ADEEN-ET	USA 55561394						
LIDA-ACRES MARC ATLEE	USA 55561346						
LIDA-ACRES REGINALD KIRBY	840003128164617						
LIDA-ACRES SUPER ESCENCE	USA 55561362						
LIDA-ACRES T ASTROID KIMBER	USA 55561361						
LIDDLE-HOBBY CC WHO ME-ET	USA 73048552						1
LIDDLE-HOBBY HAS IT-ET	840003124690044						1
LIDDLE-HOBBY HASH-ET	840003124690037						
LIDDLEHIGH REAANN-ET	USA 71077604						1
LIDDLEHOLM AUBURN-RED-ET	USA 72369533						
LIDDLEHOLME ANDREA-ET	USA 72369531						
LIDDLEHOLME APLS DIME-ET	USA 72369529						
LIDDLEHOLME APLS DOLL-ET	USA 72369526						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

161

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LIDDLEHOLME PASQUEL-ET	USA 135676901						1
LIDDLEHOLME RIBBON-RED	USA 71077608						
LIDDLEHOLME ROXBURY-RED-ET	USA 69149287						
LIDDLEHOLME ROXY45	840003124690041						
LIDDLEHOLME SIERRA-RED	840003129745767						1
LIDDLEHOLME TALNT JAGUAR-ET	840003004202148						
LIDDLEHOLME TOOTSIE	840003129745770						
LIDDLEHOLME-BRT DIAL-RED-ET	840003124690031	C					
LIDDLEHOLME-RT TALENT DEE	USA 64516966	C					
LIDDLEHOLME-YH RAZZLE-ET	USA 71077603						
LIDDLEHOLME-YH S-MATIC RAE	USA 65662963						1
LIDDLEHOME-R DRHM RHONDA-ET	USA 137462131						
LIDDLEHOME-R SHOTTLE	USA 64516965					C	
LIEBSTE 300-ET	DEU 350564642						
LIFE-O-RILEY 1990	USA 73877729						
LIFE-O-RILEY 2117	USA 73877727						
LIFE-O-RILEY 2230	USA 73877752						
LIFE-O-RILEY 2248	USA 73877775						
LIFE-O-RILEY 2290	USA 73877792						
LIFE-O-RILEY 2377	USA 73877887						
LIFE-O-RILEY 2930	USA 73877811						
LIFE-O-RILEY 2996	USA 73877735						
LIFE-O-RILEY 6670	USA 73877784						
LIGHTEN-UP AFTERSHOCK FERN	USA 72619545						
LIGHTEN-UP DURABLE DEE	USA 72619544						3
LIGHTNINGRIDGE-RB SF23039-ET	840003133063232						1
LIGHTNINGRIDGE-RB SL23043-ET	840003133063236						
LIGHTNING-RIDGE DURHAMHAPPY	USA 135328442						
LIGHTNINGRIDGE CINNAMON-ET	840003125945221						1
LIGHTNINGRIDGE COLT 9283-ET	840003125944805						1
LIGHTNINGRIDGE SL CHIVES-ET	840003125945376						
LIGHTNINGRIDGE SL SPICE-ET	840003125945364						
LIGHTNINGRIDGE SNOW 9396-ET	840003125944918						
LIGHTNINGRIDGE SNOW 9398-ET	840003125944920			C			
LIGHTNINGRIDGE SNOW 9461-ET	840003125944983					C	
LIGHTNINGRIDGE SNOW 9501-ET	840003125945023						
LIGHTNINGRIDGE SNOW 9506-ET	840003125945028					C	
LIGHTNINGRIDGE THYME-ET	840003125945270						
LIGHTNINGRIDGE-RB 23051-ET	840003133063244						
LIGHTNINGRIDGE-RB BLAIR-ET	840003125945009						
LIGHTNINGRIDGE-RB BOSS-ET	840003133063405						
LIGHTNINGRIDGE-RB BOSSY-ET	840003133063406						
LIGHTNINGRIDGE-RB BOUNTY-ET	840003133063383						
LIGHTNINGRIDGE-RB GIFT-ET	840003133063399						
LIGHTNINGRIDGE-RB PB9583-ET	840003125945105						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LIGHTNINGRIDGE-RB PB9615-ET	840003125945137						
LIGHTNINGRIDGE-RB R BABE-ET	840003133063276						
LIGHTNINGRIDGE-RB SF9980-ET	840003125945502						1
LIGHTNINGRIDGE-RB SF9988-ET	840003125945510						1
LIGHTNINGRIDGE-RB SL9518-ET	840003125945040						
LIGHTNINGRIDGE-RB SS9567-ET	840003125945089						
LIGNETTE GOLDWYN JUDIE-ET	CAN 103603460						1
LILA-ET	DEU 351673562						
LILAB-ET	GBR 11510061						
LILIEES ALEXANDER LYLA-ET	USA 70802153						1
LILLIESDALE FBI CHARMED-ET	CAN 7826845						
LIME-ACRES ABSOLUTE JEM	USA 72652596		C				
LIME-ACRES GOLDSUN HOLLA	USA 72652595						
LIME-ACRES TALENT KWEEN-RED	USA 139878677						1
LIME-VAL SAMSON CALLIE	840003131124353						
LIME-VALLEY BOLTON TINA-ET	USA 139748761						1
LIME-VALLEY DARCY FAME-ET	USA 141568942					C	
LIME-VALLEY DARCY FLICKA-ET	USA 141568960					C	
LIME-VALLEY DARCY FRAN-ET	USA 141568924					C	
LIME-VALLEY DARCY FUTURE-ET	USA 141568933					C	
LIME-VALLEY FERNTASTIC	USA 142822238					C	
LIME-VALLEY FLAME	USA 142822229						
LIME-VALLEY GOLD CHARM-ET	USA 141518497						1
LIME-VALLEY OBSRVR FEVER-ET	USA 141568465						
LIME-VALLEY OBSRVR FRAN-ET	USA 141568474						
LIME-VALLEY OMAN FERGIE-ET	USA 141467540					C	
LIN-LEA BOGART AVATAR	USA 56375518						
LIN-LEA HILL DINTY	USA 58960312						
LIN-LEA INQUIRER DELTA	USA 52647546						
LIN-LEA SATIRE AURORA	USA 55358757						
LIN-LEA SHAMROCK ARBY	USA 57164983						
LIN-LEA SPUR DELLA	USA 58960313			C			
LIN-MAX SANCHEZ AUSTIN	USA 70594994						
LIN-RO A-MILLION PAT-ET	USA 64149101						
LIN-RO A-MILLION PATSY-ET	USA 64149102						
LIN-RO ALEX QUEEN-ET	USA 64149150						1
LIN-RO ALEXANDER RAVEN-ET	USA 64149123						1
LIN-RO BOLTON CARLA	USA 69832053						
LIN-RO BRAXTON TESSIE	USA 74122267						
LIN-RO DEFENDER ELMINE	USA 74122256						
LIN-RO GOLD CHIP LEXIE-ET	USA 72918591						
LIN-RO GOLD-PP MON-RED-ET	USA 72918584						
LIN-RO GOLDDUST LOLLY-ET	USA 74122257						
LIN-RO GOLDWYN FLORIE-ET	USA 64149165		C				3
LIN-RO LAUTHORITY REBA-ET	USA 64149126						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LIN-RO NUM-UNO ELLIE-ET	USA 74122255						
LIN-RO PRIMETIME MILLIE	USA 140423545						
LIN-RO REDBURST JEN-ET	USA 72918562		C				1
LIN-RO S-SIRE BRITA-ET	USA 72918595						
LIN-RO SHOTTLE KATE-ET	USA 64149161					C	
LIN-RO SHOTTLE KATHY-ET	USA 64149160						
LIN-RO SHOTTLE KITTY-ET	USA 64149162						
LIN-RO SYMT DENA-ET	USA 72918577		C				
LIN-RO SYMT DIANA-ET	USA 72918578						
LIN-RO SYMT DINA-ET	USA 72918576		C	C			
LIN-RO SYMT DIXIE-ET	USA 72918580		C				
LIN-RO SYMT DOLLY-ET	USA 72918579						
LIN-RO SYMT DONNA-ET	USA 72918581		C	C			
LIN-RO SYMT DORIS-ET	USA 72918582						
LIN-RO WIND PAM-ET	USA 74122244						1
LIN-RO-OMAR LAVA RAE-RED-ET	USA 140121210						
LIN-RO-OMAR LIBY RAE-RED-ET	USA 140468986						
LIN-RO-OMAR LINA RAE-RED	USA 68578467						
LINCOLN-ACRES DES ANGELA	USA 72834831						1
LINCOLN-ACRES DIEHARD DIANE	USA 62004596						
LINCOLN-ACRES FAY BELL-RED	USA 68794071						
LINCOLN-ACRES GSTAR RHODA	USA 72834830						
LINCOLN-HILL ADALINE	840003131089722						
LINCOLN-HILL ALASKA	USA 73337569						
LINCOLN-HILL AMAZING	USA 66132820					C	
LINCOLN-HILL ARIANA	USA 73337597						
LINCOLN-HILL ARIEL	USA 71399000						
LINCOLN-HILL AWARD-ET	USA 73337535					C	
LINCOLN-HILL BARBIE	USA 73337619						
LINCOLN-HILL CEECEE	840003131089718						
LINCOLN-HILL CHARM-RED	USA 73337523						1
LINCOLN-HILL CHEANY	USA 71399021						
LINCOLN-HILL CHOREY	USA 73337530						
LINCOLN-HILL CRISSY	USA 73337584						
LINCOLN-HILL CRISTY	USA 73337527						
LINCOLN-HILL DARLEEN	USA 73337580						
LINCOLN-HILL DAWNY	USA 71399048						1
LINCOLN-HILL DELIGHT-ET	USA 73337604						
LINCOLN-HILL DEVINE-RED-ET	USA 73337561						
LINCOLN-HILL DIXIE-RED-ET	USA 73337591						
LINCOLN-HILL DOORMAN NORRY	USA 73337524					C	
LINCOLN-HILL DRAMATIC ROSIE	USA 62072860						
LINCOLN-HILL DREAMER	USA 71399031						
LINCOLN-HILL EMILY	840003131089726						
LINCOLN-HILL EVELYN	USA 73337517					C	1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

164

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINCOLN-HILL JAYLO	USA 73337576						
LINCOLN-HILL JENNA	USA 71398977						
LINCOLN-HILL JESSIE	840003131089717						
LINCOLN-HILL KAFFY	840003131089697						
LINCOLN-HILL KASY	USA 73337528						
LINCOLN-HILL KYRA	840003131089728			C			
LINCOLN-HILL LACH	840003131089742						
LINCOLN-HILL LEXI	USA 73337558			C			
LINCOLN-HILL MALLORY	USA 73337637		C				3
LINCOLN-HILL MIST	840003131089720						
LINCOLN-HILL MS DREAMER-RED	840003131089710						
LINCOLN-HILL MS KORTNEY	USA 71398990						
LINCOLN-HILL MS NATTY	USA 73337541						
LINCOLN-HILL MS NICKEL	840003131089733						
LINCOLN-HILL MS STELLA	USA 73337539						
LINCOLN-HILL NAAMA	840003131089719						
LINCOLN-HILL NALA-ET	840003131089732						
LINCOLN-HILL NALANI-ET	USA 70086153						
LINCOLN-HILL NALEA	840003131089721						
LINCOLN-HILL NALINE	840003131089703	C					
LINCOLN-HILL NARI	USA 73337578						
LINCOLN-HILL NASHVIL	840003131089701						
LINCOLN-HILL NATERAY	USA 70086188						
LINCOLN-HILL NATTI	USA 73337615						1
LINCOLN-HILL NATTY	USA 73337575						
LINCOLN-HILL NAUTICA	USA 73337545						
LINCOLN-HILL NECKLAC	USA 73337609						
LINCOLN-HILL NEENAH CRI-ET	USA 62769104	C					
LINCOLN-HILL NEKA-ET	USA 70086130						
LINCOLN-HILL NEKYA	USA 71399036						1
LINCOLN-HILL NEL-ET	USA 73337621						
LINCOLN-HILL NELLA	USA 73337631						
LINCOLN-HILL NELLI	840003131089715						
LINCOLN-HILL NELLY	USA 71398931						
LINCOLN-HILL NESSA	USA 73337536						
LINCOLN-HILL NESSY	840003131089731	C					
LINCOLN-HILL NESTLE-ET	USA 73337600						
LINCOLN-HILL NESTLY	USA 73337607						
LINCOLN-HILL NETEH	USA 70086164						
LINCOLN-HILL NEWYORK-ET	USA 73337582						
LINCOLN-HILL NEXIUM	840003131089744						
LINCOLN-HILL NEXUS	840003131089738						
LINCOLN-HILL NIA	USA 73337646						
LINCOLN-HILL NIBALOS	USA 71399007						
LINCOLN-HILL NIBBERY	USA 71399041						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

165

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINCOLN-HILL NIBBI	USA 71398967						
LINCOLN-HILL NIBBLES3-ET	USA 70086173						
LINCOLN-HILL NIBBLIE	USA 71398957					C	
LINCOLN-HILL NIBBLIT	USA 73337529	C					
LINCOLN-HILL NIBBLY	USA 73337563	C					
LINCOLN-HILL NIBIL	840003131089712						
LINCOLN-HILL NIBLES	USA 71398987						
LINCOLN-HILL NIBY	USA 73337643						
LINCOLN-HILL NICKEL	USA 73337611						
LINCOLN-HILL NIFTIE	USA 73337645						
LINCOLN-HILL NIGHTIM	USA 71399005						
LINCOLN-HILL NIKETA	USA 71398906			C			
LINCOLN-HILL NIKEYA	USA 70086158						
LINCOLN-HILL NIKKE	USA 73337518						
LINCOLN-HILL NINAY	USA 70086182						
LINCOLN-HILL NISSAN	840003131089723						
LINCOLN-HILL NITLITE	840003131089695						
LINCOLN-HILL NIXSY	USA 73337567						
LINCOLN-HILL NODDIA	USA 73337586						
LINCOLN-HILL NODIAN	USA 71399025						
LINCOLN-HILL NOME	840003131089749						1
LINCOLN-HILL NOMI-TW	840003131089713						
LINCOLN-HILL NOMILY	840003131089716						
LINCOLN-HILL NONI-TW	840003131089714						
LINCOLN-HILL NORA-ET	USA 70086156						
LINCOLN-HILL NORRIE	USA 71398954						
LINCOLN-HILL NORRY	USA 73337507						
LINCOLN-HILL NOTARY	USA 73337618					C	
LINCOLN-HILL NUBBLY	USA 73337532						
LINCOLN-HILL NUBELS	USA 73337533					C	
LINCOLN-HILL NUBY	USA 73337594						
LINCOLN-HILL NUMBA	840003131089748						
LINCOLN-HILL NUTMEG	USA 73337628						
LINCOLN-HILL NYIA-ET	USA 70086154						
LINCOLN-HILL NYSSA	USA 70086175						
LINCOLN-HILL OLLIE-RED	USA 73337614						
LINCOLN-HILL PAM	USA 73337593						3
LINCOLN-HILL PAYTON-ET	USA 70086131						
LINCOLN-HILL PECAN	USA 71399045						
LINCOLN-HILL PERFECT-ET	USA 70086152						
LINCOLN-HILL PHILIS	USA 73337598						
LINCOLN-HILL PONY	USA 73337655						
LINCOLN-HILL PRESILLA-ET	USA 70086126						
LINCOLN-HILL PRISSY	USA 71398986						
LINCOLN-HILL RAINN	840003131089740						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINCOLN-HILL RHIANNA	USA 73337629						
LINCOLN-HILL RIKKI	USA 73337577						
LINCOLN-HILL ROSE	USA 73337633					C	
LINCOLN-HILL SELMA	USA 73337573						
LINCOLN-HILL SHARI	USA 71399046						
LINCOLN-HILL STARY	840003131089692						
LINCOLN-HILL STETSON	USA 70086083						
LINCOLN-HILL SUBLIME	840003131089746						
LINCOLN-HILL TABITHA-RED	USA 73337540						
LINCOLN-HILL TANYA	USA 73337521						
LINCOLN-HILL TRFYWIF-RED	USA 73337538						
LINCOLN-HILL TS NOMINEE-ET	USA 63973541						
LINDA-TERRA 1608	840003014494394						
LINDA-TERRA 2114	840003124553203						
LINDA-TERRA 2115	840003124553204						
LINDA-TERRA 2124	840003124553213						
LINDA-TERRA 2136	840003124553225						3
LINDA-TERRA 2164	840003124553253						
LINDA-TERRA 2166	840003124553255					C	
LINDA-TERRA 2177	840003124553266						3
LINDA-TERRA 2199	840003124553288						
LINDA-TERRA 2203	840003124553292						
LINDA-TERRA 2204	840003124553293						
LINDA-TERRA 2223	840003124553312			C			
LINDA-TERRA 2233-TW	840003124553322					C	
LINDA-TERRA 2234-TW	840003124553323						
LINDA-TERRA 2237	840003124553326						
LINDA-TERRA 2239	840003124553328						
LINDA-TERRA 2249	840003124553338		C				
LINDA-TERRA 2251	840003124553340						
LINDA-TERRA 2257	840003124553346						
LINDA-TERRA 2272	840003124553361						
LINDA-TERRA 2273	840003124553362						
LINDA-TERRA 2274	840003124553363						
LINDA-TERRA 2276-TW	840003124553365						
LINDA-TERRA 2277-TW	840003124553366						
LINDA-TERRA 2279	840003124553368						
LINDA-TERRA 2280	840003124553369						
LINDA-TERRA 2284	840003124553373						
LINDA-TERRA 2285	840003124553374						
LINDA-TERRA 2286	840003124553375					C	
LINDA-TERRA 2291	840003124553380						
LINDA-TERRA 2296	840003124553385						
LINDA-TERRA 2297	840003124553386						
LINDA-TERRA 2460	840003127776644						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

167

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA 2586	840003127776770						
LINDA-TERRA 2606	840003127776790						
LINDA-TERRA 2677	840003127776861						
LINDA-TERRA 2690	840003127776874						
LINDA-TERRA 2834	840003127777018			C			
LINDA-TERRA 3205	840003129432096						
LINDA-TERRA ACE 2552	840003127776736						
LINDA-TERRA ACE 2987	840003129431878						
LINDA-TERRA AERO 1990	840003124553079						
LINDA-TERRA AIRLIFT 2327	840003124553416						
LINDA-TERRA AIRLIFT 2333	840003124553422					C	
LINDA-TERRA AIRLIFT 2370	840003124553459						
LINDA-TERRA AIRLIFT 2378	840003124553467		C				
LINDA-TERRA AIRLIFT 2379	840003124553468						
LINDA-TERRA AIRLIFT 2388	840003124553477						
LINDA-TERRA AIRLIFT 2418	840003127776602						
LINDA-TERRA AIRLIFT 2429	840003127776613						
LINDA-TERRA AIRLIFT 2471	840003127776655						
LINDA-TERRA AIRLIFT 2503	840003127776687						
LINDA-TERRA AIRLIFT 2957	840003129431848						
LINDA-TERRA AIRLIFT 2967	840003129431858						
LINDA-TERRA AIRLIFT 2978	840003129431869						
LINDA-TERRA AIRLIFT 2980	840003129431871						
LINDA-TERRA AIRLIFT 2989	840003129431880						
LINDA-TERRA AIRLIFT 3012	840003129431903						
LINDA-TERRA AIRLIFT 3014	840003129431905						
LINDA-TERRA AIRLIFT 3031	840003129431922						
LINDA-TERRA AIRLIFT 3035	840003129431926						
LINDA-TERRA AIRLIFT 3036	840003129431927						
LINDA-TERRA AIRLIFT 3049	840003129431940						
LINDA-TERRA AIRLIFT 3075	840003129431966						
LINDA-TERRA AIRLIFT 3076	840003129431967						
LINDA-TERRA AIRLIFT 3084	840003129431975	C					
LINDA-TERRA AIRLIFT 3111	840003129432002						
LINDA-TERRA ARLINGTON 2720	840003127776904	C					
LINDA-TERRA ARLINGTON 2746	840003127776930						
LINDA-TERRA ART 2099	840003124553188						
LINDA-TERRA ATWOOD 2725-TW	840003127776909						
LINDA-TERRA ATWOOD 2726-TW	840003127776910						
LINDA-TERRA AVALON 1982	840003124553071						
LINDA-TERRA AVALON 2009	840003124553098						
LINDA-TERRA AVALON 2106	840003124553195						
LINDA-TERRA BEEMER 3317	840003129432208						
LINDA-TERRA BEEMER 3320	840003129432211						
LINDA-TERRA BIGWHEEL 2530	840003127776714						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA BIGWHEEL 2600	840003127776784						
LINDA-TERRA BOGART 7352	USA 69027216						
LINDA-TERRA BOGART 7483	USA 69027347			C			
LINDA-TERRA BOGART 7554	USA 69027418			C			
LINDA-TERRA BOGART 7987	USA 69960095			C			
LINDA-TERRA BOGART 8047	USA 69960155			C			
LINDA-TERRA BOGART 8056	USA 69960164						
LINDA-TERRA BOGART 8058	USA 69960166						
LINDA-TERRA BOGART 8106	USA 70198162						
LINDA-TERRA BOGART 8137	USA 70198193			C			
LINDA-TERRA BOGART 8191	USA 70198247			C			
LINDA-TERRA BRADNCK 2194-TW	840003124553283						
LINDA-TERRA BRADNICK 1710	840003014494496						
LINDA-TERRA BRADNICK 2037	840003124553126						
LINDA-TERRA BRADNICK 2045	840003124553134						
LINDA-TERRA BRADNICK 2051	840003124553140						
LINDA-TERRA BRADNICK 2055	840003124553144						
LINDA-TERRA BRADNICK 2063	840003124553152					C	
LINDA-TERRA BRADNICK 2144	840003124553233	C					
LINDA-TERRA BRADNICK 2169	840003124553258						
LINDA-TERRA BRADNICK 2188	840003124553277	C					
LINDA-TERRA BRADNICK 2212	840003124553301					C	
LINDA-TERRA BRADNICK 2247	840003124553336						
LINDA-TERRA BRADNICK 2263	840003124553352						
LINDA-TERRA BRADNICK 2271	840003124553360						
LINDA-TERRA BRADNICK 2294	840003124553383						
LINDA-TERRA BRADNICK 2322	840003124553411						
LINDA-TERRA BRADNICK 2325	840003124553414						
LINDA-TERRA BRADNICK 2345	840003124553434						
LINDA-TERRA BRADNICK 2373	840003124553462						
LINDA-TERRA BRADNICK 2387	840003124553476						
LINDA-TERRA BRADNICK 2455	840003127776639						
LINDA-TERRA BRADNICK 2469	840003127776653						
LINDA-TERRA BRADNICK 2472	840003127776656						
LINDA-TERRA BRADNICK 2476	840003127776660						
LINDA-TERRA BRADNICK 2500	840003127776684						
LINDA-TERRA BRADNICK 2514	840003127776698						
LINDA-TERRA BRADNICK 2522	840003127776706						
LINDA-TERRA BRADNICK 2540	840003127776724						
LINDA-TERRA BRADNICK 2549	840003127776733						
LINDA-TERRA BRADNICK 2605	840003127776789						
LINDA-TERRA BRADNICK 2620	840003127776804						
LINDA-TERRA BRADNICK 2632	840003127776816			C			
LINDA-TERRA BRADNICK 2641	840003127776825						
LINDA-TERRA BRADNICK 2642	840003127776826						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

169

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA BRADNICK 2650	840003127776834						
LINDA-TERRA BRADNICK 2661	840003127776845						
LINDA-TERRA BRADNICK 2683	840003127776867						
LINDA-TERRA BRADNICK 2712	840003127776896						
LINDA-TERRA BRADNICK 2766	840003127776950						
LINDA-TERRA BRADNICK 2772	840003127776956						
LINDA-TERRA BRADNICK 2803	840003127776987						
LINDA-TERRA BRADNICK 2805	840003127776989						
LINDA-TERRA BRADNICK 2806	840003127776990						3
LINDA-TERRA BRADNICK 2817	840003127777001						
LINDA-TERRA BRADNICK 2822	840003127777006		C				
LINDA-TERRA BRADNICK 2842	840003127777026						
LINDA-TERRA BRAWLER 2770	840003127776954						
LINDA-TERRA BRAWLER 2871	840003127777055						
LINDA-TERRA BRAWLER 3057	840003129431948						
LINDA-TERRA BRAWLER 3071	840003129431962						
LINDA-TERRA BRONCO 7747	USA 69463252						
LINDA-TERRA CAIRO 2015	840003124553104					C	
LINDA-TERRA CAIRO 2021	840003124553110					C	
LINDA-TERRA CANON 2142	840003124553231					C	
LINDA-TERRA CAVIAR 3067	840003129431958						
LINDA-TERRA CAVIAR 3089	840003129431980						
LINDA-TERRA CAVIAR 3099	840003129431990						3
LINDA-TERRA CAVIAR 3106	840003129431997						
LINDA-TERRA CAVIAR 3146	840003129432037						
LINDA-TERRA CAVIAR 3148	840003129432039						
LINDA-TERRA CAVIER 2856	840003127777040						
LINDA-TERRA CICERO 3054-TW	840003129431945						
LINDA-TERRA CICERO 3073	840003129431964						1
LINDA-TERRA CLAY 2413	840003127776597						
LINDA-TERRA CLAY 2505	840003127776689						
LINDA-TERRA CLAY 2527	840003127776711						
LINDA-TERRA CLAY 2865	840003127777049						
LINDA-TERRA CLAY 2889	840003127777073						
LINDA-TERRA CLAY 2920	840003129431811						
LINDA-TERRA CLAY 2940	840003129431831						
LINDA-TERRA CLAY 2968-TW	840003129431859						
LINDA-TERRA CLAY 2969-TW	840003129431860						3
LINDA-TERRA CLAY 2976	840003129431867						
LINDA-TERRA CLAY 3056	840003129431947						
LINDA-TERRA CLEAR CUT 2342	840003124553431						
LINDA-TERRA CLEAR CUT 2354	840003124553443					C	
LINDA-TERRA CLEAR CUT 2377	840003124553466						
LINDA-TERRA CLEAR CUT 2412	840003127776596						
LINDA-TERRA CLEAR CUT 2421	840003127776605						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA CLEAR CUT 2447	840003127776631						
LINDA-TERRA CLEAR CUT 2448	840003127776632						
LINDA-TERRA CLEAR CUT 2449	840003127776633						
LINDA-TERRA CLEAR CUT 2466	840003127776650						
LINDA-TERRA CLEAR CUT 2474	840003127776658						
LINDA-TERRA CLEAR CUT 2556	840003127776740						
LINDA-TERRA CLEAR CUT 2565	840003127776749						
LINDA-TERRA CLEAR CUT 2621	840003127776805					C	
LINDA-TERRA CLEAR CUT 2634	840003127776818					C	
LINDA-TERRA CLEAR CUT 2639	840003127776823					C	
LINDA-TERRA CLEAR CUT 2647	840003127776831						
LINDA-TERRA CLEAR CUT 2651	840003127776835						
LINDA-TERRA CLEAR CUT 2659	840003127776843						
LINDA-TERRA CLEAR CUT 2671	840003127776855						
LINDA-TERRA CLEAR CUT 2692	840003127776876						
LINDA-TERRA CLEAR CUT 2717	840003127776901						
LINDA-TERRA CLEAR CUT 2731	840003127776915					C	
LINDA-TERRA CLEAR CUT 2748	840003127776932						
LINDA-TERRA CLEAR CUT 2750	840003127776934						
LINDA-TERRA CLEAR CUT 2827	840003127777011						
LINDA-TERRA CLEAR CUT 2836	840003127777020						
LINDA-TERRA CLEAR CUT 2845	840003127777029						
LINDA-TERRA CLEAR CUT 2850	840003127777034						
LINDA-TERRA CLEAR CUT 2873	840003127777057						
LINDA-TERRA CLEAR CUT 2892	840003127777076						
LINDA-TERRA CLEAR CUT 2907	840003129431798						
LINDA-TERRA CLEAR CUT 2915	840003129431806						
LINDA-TERRA CLEAR CUT 2953	840003129431844						
LINDA-TERRA CLEAR CUT 2984	840003129431875						
LINDA-TERRA CLEAR CUT 3024	840003129431915						
LINDA-TERRA CLEAR CUT 3028	840003129431919						
LINDA-TERRA CLEAR CUT 3082	840003129431973						
LINDA-TERRA CLEAR CUT 3098	840003129431989						
LINDA-TERRA CLEAR CUT 3120	840003129432011						
LINDA-TERRA CLEAR CUT 3150	840003129432041						
LINDA-TERRA CLEAR CUT 3176	840003129432067						
LINDA-TERRA CLEAR CUT 3193	840003129432084						
LINDA-TERRA CLEAR CUT 3210	840003129432101						
LINDA-TERRA CLEAR CUT 3212	840003129432103						
LINDA-TERRA CLEAR CUT 3242	840003129432133						
LINDA-TERRA CLOUD-9 2828	840003127777012						
LINDA-TERRA CLOUD-9 2867	840003127777051						
LINDA-TERRA CLOUD-9 2962	840003129431853						
LINDA-TERRA DASHAWN 2108	840003124553197						
LINDA-TERRA DASHAWN 2512	840003127776696						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

171

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA DASHAWN 2524	840003127776708						
LINDA-TERRA DASHAWN 2550	840003127776734		C				
LINDA-TERRA DASHAWN 2559	840003127776743						
LINDA-TERRA DASHAWN 2594	840003127776778		C				
LINDA-TERRA DASHAWN 2602	840003127776786						3
LINDA-TERRA DASHAWN 2614	840003127776798		C				
LINDA-TERRA DASHAWN 2644	840003127776828						
LINDA-TERRA DASHAWN 2657	840003127776841		C				
LINDA-TERRA DASHAWN 2670	840003127776854					C	
LINDA-TERRA DASHAWN 2823	840003127777007		C				
LINDA-TERRA DASHAWN 2854	840003127777038						
LINDA-TERRA DASHAWN 2877	840003127777061		C				3
LINDA-TERRA DAVINCI 3048	840003129431939						
LINDA-TERRA DAVINCI 3064	840003129431955						
LINDA-TERRA DAVINCI 3118	840003129432009						
LINDA-TERRA DAVINCI 3132	840003129432023					C	
LINDA-TERRA DAVINCI 3140	840003129432031						
LINDA-TERRA DAVINCI 3170	840003129432061						
LINDA-TERRA DAVINCI 3172	840003129432063						
LINDA-TERRA DAVINCI 3174	840003129432065						
LINDA-TERRA DAVINCI 3175	840003129432066						
LINDA-TERRA DAVINCI 3178	840003129432069						
LINDA-TERRA DAVINCI 3179	840003129432070					C	
LINDA-TERRA DAVINCI 3180	840003129432071						
LINDA-TERRA DAVINCI 3188	840003129432079						
LINDA-TERRA DAVINCI 3201	840003129432092					C	
LINDA-TERRA DAVINCI 3202	840003129432093						
LINDA-TERRA DAVINCI 3216	840003129432107						
LINDA-TERRA DAVINCI 3256-TW	840003129432147						
LINDA-TERRA DAVINCI 3257-TW	840003129432148						
LINDA-TERRA DAVINCI 3308	840003129432199						
LINDA-TERRA DEFENDER 2851	840003127777035						
LINDA-TERRA DEFENDER 2861	840003127777045						
LINDA-TERRA DEFENDER 2900	840003127777084						
LINDA-TERRA DEFENDER 2937	840003129431828						
LINDA-TERRA DEFENDER 2947	840003129431838						
LINDA-TERRA DEFENDER 2948	840003129431839						
LINDA-TERRA DEFENDER 2988	840003129431879						
LINDA-TERRA DEFENDER 3006	840003129431897						
LINDA-TERRA DEFENDER 3022	840003129431913						
LINDA-TERRA DEFENDER 3055	840003129431946						
LINDA-TERRA DEFENDER 3061	840003129431952						
LINDA-TERRA DEFENDER 3068	840003129431959						
LINDA-TERRA DEFENDER 3074	840003129431965						
LINDA-TERRA DEFENDER 3083	840003129431974						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

172

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA DEFENDER 3085	840003129431976						
LINDA-TERRA DEFENDER 3087	840003129431978						
LINDA-TERRA DEFENDER 3094	840003129431985					C	
LINDA-TERRA DEFENDER 3096	840003129431987						
LINDA-TERRA DEFENDER 3097	840003129431988						
LINDA-TERRA DEFENDER 3107	840003129431998						
LINDA-TERRA DEFENDER 3121	840003129432012						
LINDA-TERRA DEFENDER 3133	840003129432024						
LINDA-TERRA DEFENDER 3138	840003129432029						
LINDA-TERRA DEFENDER 3141	840003129432032						
LINDA-TERRA DEFENDER 3144	840003129432035						
LINDA-TERRA DEFENDER 3153	840003129432044						
LINDA-TERRA DEFENDER 3160	840003129432051						
LINDA-TERRA DEFENDER 3161	840003129432052						
LINDA-TERRA DEFENDER 3165	840003129432056			C			
LINDA-TERRA DEFENDER 3171	840003129432062						
LINDA-TERRA DEFENDER 3173	840003129432064						
LINDA-TERRA DEFENDER 3196	840003129432087					C	
LINDA-TERRA DEFENDER 3231	840003129432122						
LINDA-TERRA DEFENDER 3264	840003129432155						
LINDA-TERRA DEFENDER 3269	840003129432160						
LINDA-TERRA DEFENDER 3272	840003129432163						
LINDA-TERRA DEFENDER 3291	840003129432182						
LINDA-TERRA DEFENDER 3316	840003129432207						
LINDA-TERRA DEFENDER 2912-TW	840003129431803						
LINDA-TERRA DOORMAN 1938	840003124553027						
LINDA-TERRA DOORMAN 1939	840003124553028						
LINDA-TERRA DOORMAN 1942	840003124553031					C	
LINDA-TERRA EDISON 3192	840003129432083						
LINDA-TERRA EDISON 3230	840003129432121						
LINDA-TERRA EDISON 3280	840003129432171						
LINDA-TERRA EDISON 3290	840003129432181						
LINDA-TERRA FAME 2440	840003127776624						
LINDA-TERRA FAME 2461	840003127776645						
LINDA-TERRA FAME 2475	840003127776659		C				
LINDA-TERRA FAME 2499	840003127776683						
LINDA-TERRA FAME 2532	840003127776716						
LINDA-TERRA FAME 2539	840003127776723						
LINDA-TERRA FAME 2577	840003127776761						
LINDA-TERRA FAME 2581	840003127776765						
LINDA-TERRA FAME 2591	840003127776775						
LINDA-TERRA FAME 2592	840003127776776						
LINDA-TERRA FAME 2616	840003127776800						
LINDA-TERRA FAME 2617	840003127776801						
LINDA-TERRA FAME 2625	840003127776809					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

173

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA FAME 2685	840003127776869						
LINDA-TERRA FAME 2732	840003127776916						
LINDA-TERRA FAME 2738	840003127776922						
LINDA-TERRA FAME 2739	840003127776923						
LINDA-TERRA FAME 2819	840003127777003						
LINDA-TERRA FAME 2820	840003127777004						
LINDA-TERRA FAME 2832	840003127777016						
LINDA-TERRA FAME 2863	840003127777047						
LINDA-TERRA FAME 2864	840003127777048						
LINDA-TERRA FAME 2872	840003127777056						
LINDA-TERRA FAME 2881	840003127777065						
LINDA-TERRA FAME 2899	840003127777083						
LINDA-TERRA FAME 2922	840003129431813						
LINDA-TERRA FAME 2927	840003129431818						
LINDA-TERRA FAME 2946	840003129431837						
LINDA-TERRA FAME 2960	840003129431851						
LINDA-TERRA FORK 2036	840003124553125						
LINDA-TERRA FORK 2100	840003124553189						
LINDA-TERRA FORK 2126	840003124553215						3
LINDA-TERRA FORK 2242	840003124553331						
LINDA-TERRA FORK 2262	840003124553351						
LINDA-TERRA FORK 2264	840003124553353						
LINDA-TERRA FORK 2293	840003124553382						
LINDA-TERRA FORK 2317	840003124553406	C					
LINDA-TERRA FORK 2337	840003124553426						
LINDA-TERRA FORK 2346	840003124553435						
LINDA-TERRA FORK 2349	840003124553438						
LINDA-TERRA FORK 2362-TW	840003124553451						
LINDA-TERRA FORK 2381	840003124553470						
LINDA-TERRA FORK 2396	840003124553485					C	
LINDA-TERRA FORK 2400	840003124553489	C					
LINDA-TERRA FORK 2436	840003127776620						
LINDA-TERRA FORK 2481	840003127776665						
LINDA-TERRA FORK 2483	840003127776667						
LINDA-TERRA FORK 2538	840003127776722						
LINDA-TERRA FORK 2604	840003127776788						
LINDA-TERRA FORK 2610	840003127776794						
LINDA-TERRA FORK 2619	840003127776803						
LINDA-TERRA FORK 2662	840003127776846						
LINDA-TERRA FORK 2672	840003127776856						
LINDA-TERRA FORK 2679-TW	840003127776863						
LINDA-TERRA FORK 2713	840003127776897						
LINDA-TERRA FORK 2718	840003127776902						
LINDA-TERRA FORK 2760	840003127776944						
LINDA-TERRA FORK 2779	840003127776963						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

174

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA FORK 2838-TW	840003127777022						
LINDA-TERRA FORK 2840-TW	840003127777024						
LINDA-TERRA FORK 2866	840003127777050						
LINDA-TERRA FORK 2885	840003127777069						
LINDA-TERRA FORK 2901	840003129431792						
LINDA-TERRA FORK 2925	840003129431816						
LINDA-TERRA FORK 2932	840003129431823						
LINDA-TERRA FORK 2933	840003129431824						
LINDA-TERRA FORK 3154	840003129432045						
LINDA-TERRA FORK 3156	840003129432047						
LINDA-TERRA FORK 3197	840003129432088						
LINDA-TERRA FORK 3233	840003129432124						
LINDA-TERRA FORK 3288	840003129432179						
LINDA-TERRA FORK 3289	840003129432180						
LINDA-TERRA FORK 3292	840003129432183						
LINDA-TERRA FORK 3295	840003129432186						
LINDA-TERRA FORK 3303	840003129432194						
LINDA-TERRA FORK 3321	840003129432212						
LINDA-TERRA FORK 3324	840003129432215						
LINDA-TERRA FORK 3332	840003129432223						
LINDA-TERRA G W ATWOOD 2741	840003127776925			C			
LINDA-TERRA GALAXY 1481	840003013525618			C			
LINDA-TERRA GOLD CHIP 2025	840003124553114						
LINDA-TERRA GOLD CHIP 2086	840003124553175						
LINDA-TERRA GOLD CHIP 2118	840003124553207						
LINDA-TERRA GOLD CHIP 2149	840003124553238						
LINDA-TERRA GOLD CHIP 2155	840003124553244						
LINDA-TERRA GOLD CHIP 2156	840003124553245						
LINDA-TERRA GOLD CHIP 2158	840003124553247						
LINDA-TERRA GOLD CHIP 2165	840003124553254						
LINDA-TERRA GOLD CHIP 2182	840003124553271						
LINDA-TERRA GOLD CHIP 2187	840003124553276						
LINDA-TERRA GOLD CHIP 2218	840003124553307						
LINDA-TERRA GOLD CHIP 2252	840003124553341						
LINDA-TERRA GOLD CHIP 2278	840003124553367						
LINDA-TERRA GOLD CHIP 2439	840003127776623						
LINDA-TERRA GOLD CHIP 2715	840003127776899						
LINDA-TERRA GOLD CHIP 2804	840003127776988		C				
LINDA-TERRA GOLD CHIP 2843	840003127777027						
LINDA-TERRA GULF 2054	840003124553143						
LINDA-TERRA GULF 2116	840003124553205						
LINDA-TERRA GULF 2146	840003124553235						
LINDA-TERRA GULF 2254	840003124553343						
LINDA-TERRA GULF 2289	840003124553378	C					
LINDA-TERRA GULF 2313	840003124553402		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

175

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA GULF 2321	840003124553410						
LINDA-TERRA GULF 2568	840003127776752						
LINDA-TERRA GULF 2721	840003127776905						
LINDA-TERRA GULF 3122	840003129432013					C	
LINDA-TERRA GULF 3123	840003129432014						
LINDA-TERRA GULF 3143	840003129432034			C			
LINDA-TERRA GUTHRIE 1739	840003014494525						
LINDA-TERRA GW ATWOOD 2457	840003127776641						
LINDA-TERRA HALOGEN 3333	840003129432224						
LINDA-TERRA HEADLINER 1755	840003014494541						
LINDA-TERRA HEADLINER 1764	840003014494550						
LINDA-TERRA HEADLINER 1766	840003014494552						
LINDA-TERRA HEADLINER 1780	840003014494566						
LINDA-TERRA HEADLINER 1784	840003014494570						
LINDA-TERRA HEADLINER 1786	840003014494572						
LINDA-TERRA HEADLINER 1787	840003014494573						
LINDA-TERRA HEADLINER 1790	840003014494576						
LINDA-TERRA HEADLINER 1791	840003014494577						
LINDA-TERRA HEADLINER 1806	840003014494592	C					
LINDA-TERRA HEADLINER 1819	840003014494605						
LINDA-TERRA HEADLINER 1820	840003014494606					C	
LINDA-TERRA HEADLINER 1823	840003014494609					C	
LINDA-TERRA HEADLINER 1824	840003014494610						
LINDA-TERRA HEADLINER 1843	840003014494629						
LINDA-TERRA HEADLINER 1851	840003014494637						
LINDA-TERRA HEADLINER 1857	840003014494643						
LINDA-TERRA HEADLINER 1862	840003014494648						
LINDA-TERRA HEADLINER 1870	840003014494656						
LINDA-TERRA HEADLINER 1901	840003124552990					C	
LINDA-TERRA HEADLINER 2228	840003124553317	C					
LINDA-TERRA HEADLINER 2266	840003124553355						
LINDA-TERRA HEADLINER 2301	840003124553390						
LINDA-TERRA HEADLINER 2309	840003124553398						
LINDA-TERRA HEADLINER 2318	840003124553407						
LINDA-TERRA HEADLINER 2319	840003124553408						
LINDA-TERRA HEADLINER 2330	840003124553419						
LINDA-TERRA HEADLINER 2353	840003124553442						
LINDA-TERRA HEADLINER 2371	840003124553460		C				
LINDA-TERRA HEADLINER 2395	840003124553484						
LINDA-TERRA HEADLINER 2431	840003127776615						
LINDA-TERRA HEADLINER 2508	840003127776692						
LINDA-TERRA HEADLINER 2541	840003127776725						
LINDA-TERRA HEADLINER 2554	840003127776738						
LINDA-TERRA HEADLINER 2558	840003127776742						
LINDA-TERRA HEADLINER 2563	840003127776747						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

176

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA HEADLINER 2579	840003127776763						
LINDA-TERRA HEADLINER 2582	840003127776766						
LINDA-TERRA HEADLINER 2596	840003127776780						
LINDA-TERRA HEADLINER 2598	840003127776782						
LINDA-TERRA HEADLINER 2601	840003127776785						
LINDA-TERRA HEADLINER 2608	840003127776792						
LINDA-TERRA HEADLINER 2613	840003127776797					C	
LINDA-TERRA HEADLINER 2618	840003127776802						
LINDA-TERRA HEADLINER 2630	840003127776814						
LINDA-TERRA HEADLINER 2655	840003127776839						
LINDA-TERRA HEADLINER 2749	840003127776933						
LINDA-TERRA HEADLINER 2753	840003127776937						
LINDA-TERRA HEADLINER 2950	840003129431841	C					
LINDA-TERRA HEADLINER 2975	840003129431866	C					
LINDA-TERRA HEADLINER 2983	840003129431874						
LINDA-TERRA HEADLINER 3065	840003129431956	C					
LINDA-TERRA HEADLINER 3241	840003129432132						
LINDA-TERRA HEFTY 2808	840003127776992					C	
LINDA-TERRA HEFTY 2810	840003127776994						
LINDA-TERRA HEFTY 2825	840003127777009					C	
LINDA-TERRA HUNTER 1905	840003124552994						
LINDA-TERRA HUNTER 1980	840003124553069						
LINDA-TERRA HUNTER 1991	840003124553080						
LINDA-TERRA HUNTER 1993	840003124553082						
LINDA-TERRA HUNTER 2042	840003124553131					C	
LINDA-TERRA HUNTER 2044	840003124553133						
LINDA-TERRA HUNTER 2117	840003124553206						
LINDA-TERRA HUNTER 2123	840003124553212						
LINDA-TERRA HUNTER 2141	840003124553230						
LINDA-TERRA HUNTER 2145	840003124553234			C			
LINDA-TERRA HUNTER 2161	840003124553250						
LINDA-TERRA HUNTER 2175	840003124553264						
LINDA-TERRA HUNTER 2180	840003124553269						
LINDA-TERRA HUNTER 2184	840003124553273						
LINDA-TERRA HUNTER 2192	840003124553281					C	
LINDA-TERRA HUNTER 2209	840003124553298						
LINDA-TERRA HUNTER 2214	840003124553303						
LINDA-TERRA HUNTER 2240	840003124553329						
LINDA-TERRA IOTA 1826	840003014494612						
LINDA-TERRA IOTA 1988	840003124553077						
LINDA-TERRA IOTA 2426	840003127776610						
LINDA-TERRA IOTA 2450	840003127776634						
LINDA-TERRA IOTA 2484	840003127776668		C				
LINDA-TERRA IOTA 2521	840003127776705						
LINDA-TERRA IOTA 2534	840003127776718						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA IOTA 2551	840003127776735						
LINDA-TERRA IOTA 2557	840003127776741						
LINDA-TERRA IOTA 2562	840003127776746						1
LINDA-TERRA IOTA 2564	840003127776748						
LINDA-TERRA IOTA 2583	840003127776767						
LINDA-TERRA IOTA 2587	840003127776771						
LINDA-TERRA IOTA 2599	840003127776783						
LINDA-TERRA IOTA 2622	840003127776806						3
LINDA-TERRA IOTA 2635	840003127776819				C		
LINDA-TERRA IOTA 2645	840003127776829						
LINDA-TERRA IOTA 2646	840003127776830						
LINDA-TERRA IOTA 2665	840003127776849						
LINDA-TERRA IOTA 2674	840003127776858						
LINDA-TERRA IOTA 2693	840003127776877						
LINDA-TERRA IOTA 2699	840003127776883						
LINDA-TERRA IOTA 2776	840003127776960						
LINDA-TERRA IOTA 2777	840003127776961						
LINDA-TERRA IOTA 2797	840003127776981						
LINDA-TERRA IOTA 2868	840003127777052						
LINDA-TERRA IOTA 2874	840003127777058						
LINDA-TERRA IOTA 2879	840003127777063					C	
LINDA-TERRA IOTA 2883	840003127777067						
LINDA-TERRA IOTA 2898	840003127777082						
LINDA-TERRA IOTA 2909	840003129431800						
LINDA-TERRA IOTA 2970	840003129431861						
LINDA-TERRA IOTA 2982	840003129431873					C	
LINDA-TERRA IOTA 2985	840003129431876						
LINDA-TERRA IOTA 2992	840003129431883						
LINDA-TERRA IOTA 2993	840003129431884						
LINDA-TERRA IOTA 2996	840003129431887						
LINDA-TERRA IOTA 2997	840003129431888						
LINDA-TERRA IOTA 2999	840003129431890						
LINDA-TERRA IOTA 3002	840003129431893						
LINDA-TERRA IOTA 3004	840003129431895						
LINDA-TERRA IOTA 3005	840003129431896						
LINDA-TERRA IOTA 3017	840003129431908						
LINDA-TERRA IOTA 3033	840003129431924						
LINDA-TERRA IOTA 3037	840003129431928						
LINDA-TERRA IOTA 3040	840003129431931						
LINDA-TERRA IOTA 3045	840003129431936						
LINDA-TERRA IOTA 3052	840003129431943						
LINDA-TERRA IOTA 3078	840003129431969						
LINDA-TERRA IOTA 3251	840003129432142						
LINDA-TERRA IOTA 3276	840003129432167						
LINDA-TERRA IOTA 3302	840003129432193						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

178

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA KINGBOY 3314	840003129432205						
LINDA-TERRA KINGPIN 3079	840003129431970						
LINDA-TERRA KINGPIN 3086	840003129431977						
LINDA-TERRA KINGPIN 3088	840003129431979						
LINDA-TERRA KINGPIN 3103	840003129431994					C	
LINDA-TERRA KINGPIN 3124	840003129432015						
LINDA-TERRA KINGPIN 3130	840003129432021						
LINDA-TERRA KINGPIN 3134	840003129432025						3
LINDA-TERRA KINGPIN 3137	840003129432028		C				
LINDA-TERRA KINGPIN 3157	840003129432048						
LINDA-TERRA KINGPIN 3159	840003129432050						
LINDA-TERRA KINGPIN 3215	840003129432106						
LINDA-TERRA KINGPIN 3219	840003129432110					C	
LINDA-TERRA KINGPIN 3229	840003129432120						
LINDA-TERRA KINGPIN 3239	840003129432130					C	
LINDA-TERRA KINGPIN 3240	840003129432131						
LINDA-TERRA LASER 2365	840003124553454						
LINDA-TERRA LASER 2523	840003127776707					C	
LINDA-TERRA LIGHT 2017	840003124553106	C					
LINDA-TERRA LIGHT 2019	840003124553108	C					
LINDA-TERRA LIGHT 2020	840003124553109						
LINDA-TERRA MACHINE 1440	840003013525577						
LINDA-TERRA MACHINE 2010	840003124553099					C	
LINDA-TERRA MAGNUS 10022	USA 72120843						
LINDA-TERRA MAGNUS 10024	USA 72120845						
LINDA-TERRA MAGNUS 1602	840003014494388						
LINDA-TERRA MAGNUS 1610	840003014494396						
LINDA-TERRA MAGNUS 1736	840003014494522						
LINDA-TERRA MAGNUS 2705	840003127776889						
LINDA-TERRA MAGNUS 3307	840003129432198					C	
LINDA-TERRA MAGNUS 3309	840003129432200						
LINDA-TERRA MAGNUS 3327	840003129432218						
LINDA-TERRA MAGNUS 9692	USA 71609192						
LINDA-TERRA MANIFOLD 1382	840003013525519			C			
LINDA-TERRA MANIFOLD 1428	840003013525565			C			
LINDA-TERRA MANIFOLD 1588	840003013525725						
LINDA-TERRA MARCO 2022	840003124553111						
LINDA-TERRA MARCO 3095	840003129431986						
LINDA-TERRA MAXUM 2077-TW	840003124553166						
LINDA-TERRA MAXUM 2103-TW	840003124553192						
LINDA-TERRA MAXUM 2129	840003124553218						
LINDA-TERRA MAYFIELD 1213	840003012281582						1
LINDA-TERRA MCCTCHN 2259-TW	840003124553348						
LINDA-TERRA MCCTCHN 2942-TW	840003129431833						
LINDA-TERRA MCCTCHN 3126-TW	840003129432017						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

179

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MCCUTCHEN 1567	840003013525704						
LINDA-TERRA MCCUTCHEN 1579	840003013525716						
LINDA-TERRA MCCUTCHEN 1585	840003013525722						
LINDA-TERRA MCCUTCHEN 1668	840003014494454						
LINDA-TERRA MCCUTCHEN 1727	840003014494513						
LINDA-TERRA MCCUTCHEN 1729	840003014494515						
LINDA-TERRA MCCUTCHEN 1743	840003014494529						
LINDA-TERRA MCCUTCHEN 1745	840003014494531						3
LINDA-TERRA MCCUTCHEN 1746	840003014494532						
LINDA-TERRA MCCUTCHEN 1768	840003014494554						
LINDA-TERRA MCCUTCHEN 1771	840003014494557						
LINDA-TERRA MCCUTCHEN 1777	840003014494563						
LINDA-TERRA MCCUTCHEN 1779	840003014494565						
LINDA-TERRA MCCUTCHEN 1887	840003014494673						
LINDA-TERRA MCCUTCHEN 1959	840003124553048						
LINDA-TERRA MCCUTCHEN 1977	840003124553066						
LINDA-TERRA MCCUTCHEN 2003	840003124553092						
LINDA-TERRA MCCUTCHEN 2005	840003124553094						
LINDA-TERRA MCCUTCHEN 2007	840003124553096						
LINDA-TERRA MCCUTCHEN 2028	840003124553117						
LINDA-TERRA MCCUTCHEN 2040	840003124553129						
LINDA-TERRA MCCUTCHEN 2073	840003124553162						
LINDA-TERRA MCCUTCHEN 2085	840003124553174						
LINDA-TERRA MCCUTCHEN 2087	840003124553176						
LINDA-TERRA MCCUTCHEN 2093	840003124553182						
LINDA-TERRA MCCUTCHEN 2097	840003124553186						
LINDA-TERRA MCCUTCHEN 2139	840003124553228	C					
LINDA-TERRA MCCUTCHEN 2153	840003124553242						
LINDA-TERRA MCCUTCHEN 2160	840003124553249						3
LINDA-TERRA MCCUTCHEN 2162	840003124553251						
LINDA-TERRA MCCUTCHEN 2168	840003124553257						
LINDA-TERRA MCCUTCHEN 2171	840003124553260						
LINDA-TERRA MCCUTCHEN 2186	840003124553275						
LINDA-TERRA MCCUTCHEN 2191	840003124553280						
LINDA-TERRA MCCUTCHEN 2198	840003124553287						
LINDA-TERRA MCCUTCHEN 2213	840003124553302						
LINDA-TERRA MCCUTCHEN 2238	840003124553327						
LINDA-TERRA MCCUTCHEN 2250	840003124553339						
LINDA-TERRA MCCUTCHEN 2295	840003124553384						
LINDA-TERRA MCCUTCHEN 2339	840003124553428						
LINDA-TERRA MCCUTCHEN 2344	840003124553433						
LINDA-TERRA MCCUTCHEN 2348	840003124553437						
LINDA-TERRA MCCUTCHEN 2403	840003127776587						
LINDA-TERRA MCCUTCHEN 2443	840003127776627						
LINDA-TERRA MCCUTCHEN 2485	840003127776669						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MCCUTCHEN 2497	840003127776681						
LINDA-TERRA MCCUTCHEN 2507	840003127776691						
LINDA-TERRA MCCUTCHEN 2515	840003127776699						3
LINDA-TERRA MCCUTCHEN 2517	840003127776701		C				
LINDA-TERRA MCCUTCHEN 2525	840003127776709						
LINDA-TERRA MCCUTCHEN 2543	840003127776727						
LINDA-TERRA MCCUTCHEN 2544	840003127776728						
LINDA-TERRA MCCUTCHEN 2561	840003127776745						
LINDA-TERRA MCCUTCHEN 2573	840003127776757					C	
LINDA-TERRA MCCUTCHEN 2575	840003127776759						
LINDA-TERRA MCCUTCHEN 2576	840003127776760						
LINDA-TERRA MCCUTCHEN 2593	840003127776777						
LINDA-TERRA MCCUTCHEN 2595	840003127776779						
LINDA-TERRA MCCUTCHEN 2603	840003127776787						
LINDA-TERRA MCCUTCHEN 2624	840003127776808						
LINDA-TERRA MCCUTCHEN 2626	840003127776810						
LINDA-TERRA MCCUTCHEN 2631	840003127776815						
LINDA-TERRA MCCUTCHEN 2636	840003127776820						
LINDA-TERRA MCCUTCHEN 2640	840003127776824						
LINDA-TERRA MCCUTCHEN 2648	840003127776832						
LINDA-TERRA MCCUTCHEN 2654	840003127776838						
LINDA-TERRA MCCUTCHEN 2656	840003127776840						
LINDA-TERRA MCCUTCHEN 2663	840003127776847						
LINDA-TERRA MCCUTCHEN 2675	840003127776859						
LINDA-TERRA MCCUTCHEN 2676	840003127776860		C				
LINDA-TERRA MCCUTCHEN 2684	840003127776868						
LINDA-TERRA MCCUTCHEN 2688	840003127776872						
LINDA-TERRA MCCUTCHEN 2696	840003127776880						
LINDA-TERRA MCCUTCHEN 2707	840003127776891					C	
LINDA-TERRA MCCUTCHEN 2728	840003127776912						
LINDA-TERRA MCCUTCHEN 2730	840003127776914						
LINDA-TERRA MCCUTCHEN 2735	840003127776919						
LINDA-TERRA MCCUTCHEN 2740	840003127776924						
LINDA-TERRA MCCUTCHEN 2742	840003127776926						
LINDA-TERRA MCCUTCHEN 2787	840003127776971						
LINDA-TERRA MCCUTCHEN 2794	840003127776978						
LINDA-TERRA MCCUTCHEN 2814	840003127776998						
LINDA-TERRA MCCUTCHEN 2821	840003127777005						
LINDA-TERRA MCCUTCHEN 2837	840003127777021						
LINDA-TERRA MCCUTCHEN 2841	840003127777025						
LINDA-TERRA MCCUTCHEN 2846	840003127777030						
LINDA-TERRA MCCUTCHEN 2848	840003127777032						
LINDA-TERRA MCCUTCHEN 2849	840003127777033						
LINDA-TERRA MCCUTCHEN 2852	840003127777036						
LINDA-TERRA MCCUTCHEN 2857	840003127777041						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

181

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MCCUTCHEN 2870	840003127777054						
LINDA-TERRA MCCUTCHEN 2876	840003127777060						
LINDA-TERRA MCCUTCHEN 2878	840003127777062						
LINDA-TERRA MCCUTCHEN 2890	840003127777074						
LINDA-TERRA MCCUTCHEN 2895	840003127777079						
LINDA-TERRA MCCUTCHEN 2914	840003129431805						3
LINDA-TERRA MCCUTCHEN 2916	840003129431807						
LINDA-TERRA MCCUTCHEN 2919	840003129431810						
LINDA-TERRA MCCUTCHEN 2923	840003129431814						
LINDA-TERRA MCCUTCHEN 2924	840003129431815						
LINDA-TERRA MCCUTCHEN 2928	840003129431819						
LINDA-TERRA MCCUTCHEN 2929	840003129431820						
LINDA-TERRA MCCUTCHEN 2938	840003129431829						
LINDA-TERRA MCCUTCHEN 2941	840003129431832						
LINDA-TERRA MCCUTCHEN 2952	840003129431843						
LINDA-TERRA MCCUTCHEN 2954	840003129431845						
LINDA-TERRA MCCUTCHEN 2956	840003129431847						
LINDA-TERRA MCCUTCHEN 2964	840003129431855						
LINDA-TERRA MCCUTCHEN 2965	840003129431856						
LINDA-TERRA MCCUTCHEN 2973	840003129431864						
LINDA-TERRA MCCUTCHEN 2974	840003129431865						
LINDA-TERRA MCCUTCHEN 2979	840003129431870						
LINDA-TERRA MCCUTCHEN 2995	840003129431886						
LINDA-TERRA MCCUTCHEN 2998	840003129431889						
LINDA-TERRA MCCUTCHEN 3001	840003129431892						
LINDA-TERRA MCCUTCHEN 3010	840003129431901						
LINDA-TERRA MCCUTCHEN 3011	840003129431902						
LINDA-TERRA MCCUTCHEN 3015	840003129431906						
LINDA-TERRA MCCUTCHEN 3016	840003129431907						
LINDA-TERRA MCCUTCHEN 3018	840003129431909						
LINDA-TERRA MCCUTCHEN 3020	840003129431911						
LINDA-TERRA MCCUTCHEN 3026	840003129431917						
LINDA-TERRA MCCUTCHEN 3027	840003129431918						
LINDA-TERRA MCCUTCHEN 3050	840003129431941						
LINDA-TERRA MCCUTCHEN 3059	840003129431950						
LINDA-TERRA MCCUTCHEN 3060	840003129431951						
LINDA-TERRA MCCUTCHEN 3101	840003129431992						
LINDA-TERRA MCCUTCHEN 3114	840003129432005						3
LINDA-TERRA MCCUTCHEN 3116	840003129432007						
LINDA-TERRA MCCUTCHEN 3117	840003129432008	C					
LINDA-TERRA MCCUTCHEN 3149	840003129432040						
LINDA-TERRA MCCUTCHEN 3152	840003129432043						
LINDA-TERRA MCCUTCHEN 3206	840003129432097						
LINDA-TERRA MCCUTCHEN 3236	840003129432127						
LINDA-TERRA MCCUTCHEN 3238	840003129432129						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MCCUTCHEN 3247	840003129432138						
LINDA-TERRA MCCUTCHEN 3248	840003129432139						
LINDA-TERRA MCCUTCHEN 3249	840003129432140						
LINDA-TERRA MCCUTCHEN 3250	840003129432141						
LINDA-TERRA MCCUTCHEN 3258	840003129432149	C					
LINDA-TERRA MCCUTCHEN 3261	840003129432152						
LINDA-TERRA MCCUTCHEN 3267	840003129432158						
LINDA-TERRA MCCUTCHEN 3268	840003129432159						
LINDA-TERRA MCCUTCHEN 3271	840003129432162						
LINDA-TERRA MCCUTCHEN 3275	840003129432166					C	
LINDA-TERRA MCCUTCHEN 3296	840003129432187						
LINDA-TERRA MCCUTCHEN 3318	840003129432209						3
LINDA-TERRA MCNUGGETS 2092	840003124553181						
LINDA-TERRA MCNUGGETS 2095	840003124553184						
LINDA-TERRA MCNUGGETS 2122	840003124553211						3
LINDA-TERRA MCNUGGETS 2137	840003124553226						
LINDA-TERRA MCNUGGETS 2236	840003124553325						
LINDA-TERRA MCNUGGETS 2340	840003124553429						
LINDA-TERRA MCNUGGETS 2384	840003124553473						3
LINDA-TERRA MCNUGGETS 2393	840003124553482	C					
LINDA-TERRA MCNUGGETS 2506	840003127776690						3
LINDA-TERRA MCNUGGETS 2588	840003127776772						
LINDA-TERRA MCNUGGETS 2673	840003127776857						3
LINDA-TERRA MCNUGGETS 2689	840003127776873						
LINDA-TERRA MCNUGGETS 2704	840003127776888						
LINDA-TERRA MCNUGGETS 2793	840003127776977					C	3
LINDA-TERRA MCNUGGETS 2795	840003127776979	C					
LINDA-TERRA MCNUGGETS 2908	840003129431799						3
LINDA-TERRA MCNUGGETS 3044	840003129431935						
LINDA-TERRA MCNUGGETS 3058	840003129431949						3
LINDA-TERRA MCNUGGETS 3066	840003129431957						
LINDA-TERRA MCUTCHN 1775-TW	840003014494561						
LINDA-TERRA MCUTCHN 2943-TW	840003129431834						
LINDA-TERRA MEMPHIS 9567	USA 71609067			C			
LINDA-TERRA MIXER 2150	840003124553239						
LINDA-TERRA MIXER 2433	840003127776617						
LINDA-TERRA MIZZOU 2076	840003124553165						
LINDA-TERRA MIZZOU 2090	840003124553179						3
LINDA-TERRA MIZZOU 2110	840003124553199						
LINDA-TERRA MIZZOU 2174	840003124553263						
LINDA-TERRA MIZZOU 2306	840003124553395						
LINDA-TERRA MIZZOU 2323	840003124553412						
LINDA-TERRA MIZZOU 2331	840003124553420						3
LINDA-TERRA MIZZOU 2334	840003124553423						
LINDA-TERRA MIZZOU 2341	840003124553430	C					3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

183

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MIZZOU 2347	840003124553436						3
LINDA-TERRA MIZZOU 2350	840003124553439						3
LINDA-TERRA MIZZOU 2361-TW	840003124553450						
LINDA-TERRA MIZZOU 2389	840003124553478						3
LINDA-TERRA MIZZOU 2392	840003124553481						
LINDA-TERRA MIZZOU 2468	840003127776652						3
LINDA-TERRA MIZZOU 2480	840003127776664						
LINDA-TERRA MIZZOU 2494	840003127776678						3
LINDA-TERRA MIZZOU 2518	840003127776702						3
LINDA-TERRA MIZZOU 2529	840003127776713						
LINDA-TERRA MIZZOU 2571	840003127776755						3
LINDA-TERRA MIZZOU 2585-TW	840003127776769						
LINDA-TERRA MIZZOU 2623	840003127776807						
LINDA-TERRA MIZZOU 2627	840003127776811						3
LINDA-TERRA MIZZOU 2643	840003127776827						
LINDA-TERRA MIZZOU 2649	840003127776833						
LINDA-TERRA MIZZOU 2667	840003127776851						
LINDA-TERRA MIZZOU 2710	840003127776894						3
LINDA-TERRA MIZZOU 2734	840003127776918						
LINDA-TERRA MIZZOU 2747	840003127776931						
LINDA-TERRA MIZZOU 2773	840003127776957						
LINDA-TERRA MIZZOU 2778	840003127776962						3
LINDA-TERRA MIZZOU 2796	840003127776980						
LINDA-TERRA MIZZOU 2858	840003127777042			C			
LINDA-TERRA MIZZOU 2880	840003127777064						
LINDA-TERRA MIZZOU 2896	840003127777080						3
LINDA-TERRA MIZZOU 2910	840003129431801						3
LINDA-TERRA MIZZOU 2949	840003129431840						
LINDA-TERRA MIZZOU 2951	840003129431842						
LINDA-TERRA MIZZOU 2959	840003129431850					C	
LINDA-TERRA MIZZOU 2963	840003129431854						3
LINDA-TERRA MIZZOU 3008	840003129431899						3
LINDA-TERRA MIZZOU 3009	840003129431900						3
LINDA-TERRA MIZZOU 3029	840003129431920	C					
LINDA-TERRA MIZZOU 3041	840003129431932						3
LINDA-TERRA MLN 2335-RED-TW	840003124553424						3
LINDA-TERRA MNTROSS 3069-TW	840003129431960			C			
LINDA-TERRA MNTROSS 3070-TW	840003129431961			C			
LINDA-TERRA MOGUL 1728	840003014494514						
LINDA-TERRA MOGUL 1765	840003014494551	C	C				
LINDA-TERRA MOGUL 1797	840003014494583						
LINDA-TERRA MOGUL 1847	840003014494633						
LINDA-TERRA MOGUL 2029	840003124553118						
LINDA-TERRA MOGUL 2034	840003124553123						
LINDA-TERRA MOGUL 2062	840003124553151						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

184

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MOGUL 2069	840003124553158						
LINDA-TERRA MOGUL 2074	840003124553163						
LINDA-TERRA MOGUL 2082	840003124553171						
LINDA-TERRA MOGUL 2084	840003124553173			C			
LINDA-TERRA MOGUL 2088	840003124553177						
LINDA-TERRA MOGUL 2112	840003124553201						
LINDA-TERRA MOGUL 2113	840003124553202	C					
LINDA-TERRA MOGUL 2127	840003124553216						
LINDA-TERRA MOGUL 2132	840003124553221						
LINDA-TERRA MOGUL 2147	840003124553236						
LINDA-TERRA MOGUL 2159	840003124553248						
LINDA-TERRA MOGUL 2179	840003124553268						
LINDA-TERRA MOGUL 2185	840003124553274						
LINDA-TERRA MOGUL 2189	840003124553278						
LINDA-TERRA MOGUL 2190	840003124553279						
LINDA-TERRA MOGUL 2205	840003124553294						
LINDA-TERRA MOGUL 2219	840003124553308						
LINDA-TERRA MOGUL 2224	840003124553313						
LINDA-TERRA MOGUL 2243	840003124553332						
LINDA-TERRA MOGUL 2255	840003124553344						
LINDA-TERRA MOGUL 2298	840003124553387			C			
LINDA-TERRA MOGUL 2302	840003124553391						
LINDA-TERRA MOGUL 2307	840003124553396						
LINDA-TERRA MOGUL 2308	840003124553397						
LINDA-TERRA MOGUL 2311	840003124553400						3
LINDA-TERRA MOGUL 2316	840003124553405						
LINDA-TERRA MOGUL 2355	840003124553444						
LINDA-TERRA MOGUL 2366	840003124553455						
LINDA-TERRA MOGUL 2385	840003124553474						
LINDA-TERRA MOGUL 2394	840003124553483						
LINDA-TERRA MOGUL 2399	840003124553488						
LINDA-TERRA MOGUL 2401	840003127776585	C					
LINDA-TERRA MOGUL 2415	840003127776599						
LINDA-TERRA MOGUL 2417	840003127776601						
LINDA-TERRA MOGUL 2423	840003127776607						
LINDA-TERRA MOGUL 2424	840003127776608					C	
LINDA-TERRA MOGUL 2428	840003127776612						
LINDA-TERRA MOGUL 2491	840003127776675						
LINDA-TERRA MOGUL 2511	840003127776695						
LINDA-TERRA MOGUL 2546	840003127776730						
LINDA-TERRA MOGUL 2553	840003127776737		C				
LINDA-TERRA MOGUL 2555	840003127776739						
LINDA-TERRA MOGUL 2569	840003127776753						
LINDA-TERRA MOGUL 2574	840003127776758						
LINDA-TERRA MOGUL 2612	840003127776796					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

185

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MOGUL 2615	840003127776799						
LINDA-TERRA MOGUL 2628	840003127776812	C					
LINDA-TERRA MOGUL 2629	840003127776813	C					
LINDA-TERRA MOGUL 2682	840003127776866						
LINDA-TERRA MOGUL 2686	840003127776870						
LINDA-TERRA MOGUL 2691	840003127776875	C					
LINDA-TERRA MOGUL 2695	840003127776879						
LINDA-TERRA MOGUL 2702	840003127776886						
LINDA-TERRA MOGUL 2719	840003127776903						
LINDA-TERRA MOGUL 2733	840003127776917						
LINDA-TERRA MOGUL 2744	840003127776928						
LINDA-TERRA MOGUL 2751	840003127776935						
LINDA-TERRA MOGUL 2763	840003127776947						
LINDA-TERRA MOGUL 2767	840003127776951						
LINDA-TERRA MOGUL 2768	840003127776952						
LINDA-TERRA MOGUL 2771	840003127776955						
LINDA-TERRA MOGUL 2774	840003127776958						
LINDA-TERRA MOGUL 2786	840003127776970						
LINDA-TERRA MOGUL 2802	840003127776986						
LINDA-TERRA MOGUL 2815	840003127776999						
LINDA-TERRA MOGUL 2816	840003127777000						
LINDA-TERRA MOGUL 2818	840003127777002						
LINDA-TERRA MOGUL 2829	840003127777013						
LINDA-TERRA MOGUL 2835	840003127777019		C				
LINDA-TERRA MOGUL 2875	840003127777059						
LINDA-TERRA MOGUL 2886	840003127777070						
LINDA-TERRA MOGUL 2893	840003127777077						
LINDA-TERRA MOGUL 2894	840003127777078						
LINDA-TERRA MOGUL 2897	840003127777081						
LINDA-TERRA MOGUL 2902	840003129431793						
LINDA-TERRA MOGUL 2903	840003129431794						
LINDA-TERRA MOGUL 2904	840003129431795						
LINDA-TERRA MOGUL 2905	840003129431796					C	
LINDA-TERRA MOGUL 2917	840003129431808						
LINDA-TERRA MOGUL 2918	840003129431809						
LINDA-TERRA MOGUL 2921	840003129431812						
LINDA-TERRA MOGUL 2926	840003129431817						1
LINDA-TERRA MOGUL 2931	840003129431822						
LINDA-TERRA MOGUL 2935-TW	840003129431826						
LINDA-TERRA MOGUL 2939	840003129431830						
LINDA-TERRA MOGUL 2944	840003129431835						
LINDA-TERRA MOGUL 2945	840003129431836						
LINDA-TERRA MOGUL 2958	840003129431849						
LINDA-TERRA MOGUL 3003	840003129431894						
LINDA-TERRA MOGUL 3007	840003129431898						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA MOGUL 3021	840003129431912						
LINDA-TERRA MOGUL 3218	840003129432109						
LINDA-TERRA MOGUL 3227	840003129432118						
LINDA-TERRA MOGUL 3243	840003129432134	C					
LINDA-TERRA MOGUL 3265	840003129432156						
LINDA-TERRA MOGUL 3266	840003129432157						
LINDA-TERRA MOGUL 3297	840003129432188						
LINDA-TERRA MOGUL 3315	840003129432206						
LINDA-TERRA MOGUL 3325	840003129432216						
LINDA-TERRA MONTROSS 3145	840003129432036						
LINDA-TERRA MONTROSS 3168	840003129432059			C			
LINDA-TERRA MONTROSS 3182	840003129432073						
LINDA-TERRA MONTROSS 3183	840003129432074						
LINDA-TERRA MONTROSS 3195	840003129432086						
LINDA-TERRA MONTROSS 3222	840003129432113						
LINDA-TERRA MONTROSS 3224	840003129432115						
LINDA-TERRA MONTROSS 3232	840003129432123						
LINDA-TERRA MONTROSS 3237	840003129432128					C	
LINDA-TERRA MONTROSS 3281	840003129432172						
LINDA-TERRA MONTROSS 3298	840003129432189						
LINDA-TERRA MOONBOY 1411	840003013525548			C			
LINDA-TERRA NUMERO UNO 2784	840003127776968						
LINDA-TERRA NUMERO UNO 2791	840003127776975						
LINDA-TERRA NUMERO UNO 2801	840003127776985						
LINDA-TERRA NUMERO UNO 2807	840003127776991						
LINDA-TERRA NUMERO UNO 2826	840003127777010						
LINDA-TERRA NUMERO UNO 2833	840003127777017						
LINDA-TERRA NUMERO UNO 2869	840003127777053						
LINDA-TERRA NUMERO UNO 2991	840003129431882						
LINDA-TERRA NUMERO UNO 2994	840003129431885						
LINDA-TERRA NUMERO UNO 3077	840003129431968						
LINDA-TERRA PETY 3090	840003129431981	C					
LINDA-TERRA PETY 3092	840003129431983						
LINDA-TERRA PETY 3104	840003129431995						
LINDA-TERRA PETY 3108-TW	840003129431999						
LINDA-TERRA PETY 3109-TW	840003129432000						
LINDA-TERRA PETY 3128	840003129432019						
LINDA-TERRA PETY 3135	840003129432026						
LINDA-TERRA PETY 3139	840003129432030						
LINDA-TERRA PETY 3147	840003129432038						
LINDA-TERRA PETY 3162	840003129432053						
LINDA-TERRA PETY 3164	840003129432055						3
LINDA-TERRA PETY 3169	840003129432060						
LINDA-TERRA PETY 3177	840003129432068						
LINDA-TERRA PETY 3185	840003129432076						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

187

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA PETY 3189	840003129432080						
LINDA-TERRA PETY 3191	840003129432082						
LINDA-TERRA PETY 3194	840003129432085						
LINDA-TERRA PETY 3209	840003129432100						1
LINDA-TERRA PETY 3217	840003129432108					C	
LINDA-TERRA PETY 3223	840003129432114						
LINDA-TERRA PETY 3235	840003129432126						
LINDA-TERRA PETY 3244	840003129432135						
LINDA-TERRA PETY 3246	840003129432137						
LINDA-TERRA PETY 3260	840003129432151						
LINDA-TERRA PETY 3277	840003129432168						3
LINDA-TERRA PETY 3284	840003129432175						
LINDA-TERRA POLICE 3273	840003129432164						
LINDA-TERRA POLICE 3279	840003129432170						1
LINDA-TERRA QUANTUM 2590	840003127776774						
LINDA-TERRA RAY 1529	840003013525666			C			
LINDA-TERRA REFLECTOR 3313	840003129432204						
LINDA-TERRA REFLECTOR 3342	840003129432233						
LINDA-TERRA RYKER 2027	840003124553116			C			
LINDA-TERRA SHAKES 2374	840003124553463						
LINDA-TERRA SHAKES 2548	840003127776732						3
LINDA-TERRA SHAKESPEAR 2386	840003124553475						
LINDA-TERRA SHAKESPEAR 2459	840003127776643						
LINDA-TERRA SHAKESPERE 2470	840003127776654						
LINDA-TERRA SHAKESPERE 2533	840003127776717						
LINDA-TERRA SHAKESPERE 2542	840003127776726						
LINDA-TERRA SHAKESPERE 2694	840003127776878						
LINDA-TERRA SHAKESPERE 2698	840003127776882						
LINDA-TERRA SHAKESPERE 2709	840003127776893						3
LINDA-TERRA SHAKESPERE 2716	840003127776900						
LINDA-TERRA SHAKESPERE 2723	840003127776907					C	
LINDA-TERRA SHAKESPERE 2775	840003127776959						
LINDA-TERRA SHAKESPRE 2764	840003127776948						
LINDA-TERRA SHAKESPRE 2789	840003127776973					C	
LINDA-TERRA SHAKSPEARE 2351	840003124553440						
LINDA-TERRA SHAKSPEARE 2359	840003124553448						3
LINDA-TERRA SHAKSPEARE 2375	840003124553464						
LINDA-TERRA SHAKSPEARE 2376	840003124553465						
LINDA-TERRA SHAKSPEARE 2407	840003127776591						
LINDA-TERRA SHAKSPEARE 2408	840003127776592						
LINDA-TERRA SHAKSPEARE 2409	840003127776593						
LINDA-TERRA SHAKSPEARE 2411	840003127776595						
LINDA-TERRA SHAKSPEARE 2442	840003127776626						
LINDA-TERRA SHAKSPEARE 2445	840003127776629	C					
LINDA-TERRA SHAKSPEARE 2456	840003127776640						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA SHAKSPEARE 2486	840003127776670						
LINDA-TERRA SHAKSPEARE 2510	840003127776694						
LINDA-TERRA SHAMELESS 9856	USA 72120677			C			
LINDA-TERRA SHAMROCK 1300	840003012281669						3
LINDA-TERRA SHAMROCK 1305	840003013525442						
LINDA-TERRA SHAMROCK 1332	840003013525469						
LINDA-TERRA SHAMROCK 1427	840003013525564						
LINDA-TERRA SHAMROCK 1430	840003013525567						
LINDA-TERRA SHAMROCK 1448	840003013525585						
LINDA-TERRA SHAMROCK 1493	840003013525630						
LINDA-TERRA SHAMROCK 1544	840003013525681						
LINDA-TERRA SHAMROCK 1596	840003013525733						
LINDA-TERRA SHAMROCK 1639	840003014494425						
LINDA-TERRA SHAMROCK 1719	840003014494505						
LINDA-TERRA SHAMROCK 1828	840003014494614						
LINDA-TERRA SHAMROCK 1994	840003124553083					C	
LINDA-TERRA SHAMROCK 2163	840003124553252						
LINDA-TERRA SHAMROCK 2258	840003124553347						
LINDA-TERRA SHAMROCK 2315	840003124553404						
LINDA-TERRA SHAMROCK 2343	840003124553432						
LINDA-TERRA SHAN 2053	840003124553142						
LINDA-TERRA SHAN 2176	840003124553265						
LINDA-TERRA SHAN 2200	840003124553289						
LINDA-TERRA SHAN 2201	840003124553290		C				
LINDA-TERRA SHAN 2230	840003124553319						
LINDA-TERRA SHAN 2700	840003127776884						
LINDA-TERRA SHKESPEARE 2398	840003124553487						
LINDA-TERRA SHKESPEARE 2520	840003127776704						
LINDA-TERRA SHKESPEARE 2578	840003127776762						
LINDA-TERRA SHOT 1704	840003014494490						
LINDA-TERRA SHOT 2152	840003124553241					C	
LINDA-TERRA SHOT 2170	840003124553259					C	
LINDA-TERRA SHOT 2268	840003124553357					C	
LINDA-TERRA SHOT 2292	840003124553381						
LINDA-TERRA SHOT 2320	840003124553409						
LINDA-TERRA SHOT 2336	840003124553425						
LINDA-TERRA SHOT 2358	840003124553447						
LINDA-TERRA SHOT 2364	840003124553453		C			C	
LINDA-TERRA SHOT 2367-TW	840003124553456						
LINDA-TERRA SHOT 2368-TW	840003124553457					C	
LINDA-TERRA SHOT 2383	840003124553472					C	
LINDA-TERRA SHOT 2416	840003127776600					C	
LINDA-TERRA SHOT 2453	840003127776637					C	
LINDA-TERRA SHOT 2479	840003127776663						
LINDA-TERRA SHOT 2495	840003127776679						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

189

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA SHOT 2711	840003127776895						
LINDA-TERRA SHOT 2724	840003127776908					C	
LINDA-TERRA SHOT 2736	840003127776920						
LINDA-TERRA SHOT 2743	840003127776927					C	
LINDA-TERRA SHOT 2752	840003127776936						
LINDA-TERRA SHOT 2756	840003127776940						
LINDA-TERRA SHOT 2759	840003127776943						
LINDA-TERRA SHOT 2769	840003127776953						
LINDA-TERRA SHOT 2781	840003127776965					C	
LINDA-TERRA SILVRSUFER 1370	840003013525507			C			
LINDA-TERRA SNOWMOBIL 2131	840003124553220	C					
LINDA-TERRA SNOWMOBIL 2414	840003127776598						
LINDA-TERRA SPRSIRE 3253-TW	840003129432144						
LINDA-TERRA SPUR 1810	840003014494596			C			
LINDA-TERRA SSIRE 2971	840003129431862						
LINDA-TERRA STERLING 1575	840003013525712						
LINDA-TERRA STERLING 1576	840003013525713					C	
LINDA-TERRA STERLING 1581	840003013525718						
LINDA-TERRA STERLING 1609	840003014494395						
LINDA-TERRA STERLING 1611	840003014494397					C	
LINDA-TERRA STERLING 1634	840003014494420						
LINDA-TERRA STERLING 1670	840003014494456						
LINDA-TERRA STERLING 1725	840003014494511						
LINDA-TERRA STERLING 1748	840003014494534						
LINDA-TERRA STERLING 1949	840003124553038					C	
LINDA-TERRA STERLING 2758	840003127776942						
LINDA-TERRA STERLING 2782	840003127776966						
LINDA-TERRA STERLING 2809	840003127776993						
LINDA-TERRA STERLING 2831	840003127777015						
LINDA-TERRA STERLING 2859	840003127777043						
LINDA-TERRA STERLING 2860	840003127777044						
LINDA-TERRA STERLING 2882	840003127777066						
LINDA-TERRA STERLING 2888	840003127777072						
LINDA-TERRA STERLING 3080	840003129431971						
LINDA-TERRA STERLING 3093	840003129431984					C	
LINDA-TERRA STERLING 3100	840003129431991						
LINDA-TERRA STERLING 3113	840003129432004						
LINDA-TERRA STERLING 3119	840003129432010			C			
LINDA-TERRA STERLING 3208	840003129432099						
LINDA-TERRA STERLING 3211	840003129432102	C					
LINDA-TERRA STERLING 3305	840003129432196						
LINDA-TERRA SUPER 8034	USA 69960142						
LINDA-TERRA SUPER 8260	USA 70198316						
LINDA-TERRA SUPER 8290	USA 70198346						
LINDA-TERRA SUPER 8324	USA 70320057						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

190

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDA-TERRA SUPER 8397	USA 70320130	C					
LINDA-TERRA SUPER 8537	USA 70840859						
LINDA-TERRA SUPER 9940	USA 72120761						
LINDA-TERRA SUPERSIRE 2972	840003129431863						
LINDA-TERRA SUPERSIRE 3000	840003129431891						
LINDA-TERRA SUPERSIRE 3032	840003129431923						
LINDA-TERRA SUPERSIRE 3042	840003129431933						
LINDA-TERRA SUPERSIRE 3051	840003129431942						
LINDA-TERRA SUPERSIRE 3166	840003129432057						
LINDA-TERRA SUPERSIRE 3186	840003129432077						
LINDA-TERRA SUPERSIRE 3213	840003129432104					C	
LINDA-TERRA SUPERSIRE 3234	840003129432125		C				3
LINDA-TERRA SUPERSIRE 3255	840003129432146						
LINDA-TERRA SUPERSIRE 3259	840003129432150						
LINDA-TERRA SUPERSIRE 3278	840003129432169						
LINDA-TERRA TATUM 3158	840003129432049		C				
LINDA-TERRA TATUM 3181	840003129432072		C				
LINDA-TERRA TATUM 3287	840003129432178						
LINDA-TERRA TEMPO 9338	USA 71608838						
LINDA-TERRA TOPSIDE 1758-TW	840003014494544						
LINDA-TERRA TOPSIDE 1759-TW	840003014494545						
LINDA-TERRA TOYSTORY 7330	USA 69027194						
LINDA-TERRA UNK 2570	840003127776754						
LINDA-TERRA UNK 2664	840003127776848						
LINDA-TERRA UNK 3226	840003129432117						
LINDA-TERRA UNO 2757	840003127776941						
LINDA-TERRA WONKA 3282	840003129432173						
LINDALE ADVENT DULCIE	USA 65426613						
LINDALE ATWOOD ELLIE MAE	USA 70241576			C			
LINDALE AVALANCHE DOHNER	USA 69821061						
LINDALE BRAXTON BEA-ET	USA 70755889			C			
LINDALE FOREVER GOLD-ET	USA 65944617			C			
LINDALE GOLDCHIP DANI	USA 70755868						
LINDALE SHOTTLE MEDORA	USA 70755904						
LINDALE SID ELECTRA-ET	840003130016534			C			
LINDELLWOOD BOL TINA-ET	USA 65647428						
LINDELLWOOD BOL TYRA-ET	USA 65647426						
LINDELLWOOD ELITE TARA	USA 68784539						
LINDELLWOOD EXPLDE TEA-ET	USA 70890774						
LINDELLWOOD ORLAN TIARA	USA 71734329						
LINDELLWOOD PGWRE THEA-ET	USA 65647436						
LINDELLWOOD PRONTO TRIXIE	USA 66810938						
LINDELLWOOD SHAQ HARMONY-ET	USA 68696649						
LINDEN-LOCH BAXTER PIXY	USA 139830372						
LINDEN-LOCH DAMION DELILA	USA 138874894						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

191

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINDEN-LOCH FEVER STARLA-ET	USA 141863542						
LINDEN-LOCH JASPER DYNAMITE	USA 141097844						
LINDEN-LOCH JASPER PIMMS-ET	USA 140688616						3
LINDEN-LOCH MILLION ROXY	USA 140833294		C				
LINDEN-LOCH SOLOMON JUPITER	840003126482577						
LINDENRIGHT BAXTER DELISH	CAN 9652941						
LINDENRIGHT BRADNICK MOOVIN ON	CAN 11470454						3
LINDENRIGHT DOROTHEE-ET	CAN 104112329						
LINDENRIGHT FEVER MILAN-ET	CAN 11626145						
LINDENRIGHT GOLDWYN BLISS	CAN 8995820						
LINDENRIGHT GOLDWYN DELIGHT-ET	CAN 7971064						
LINDENRIGHT GOLDWYN DELUXE	CAN 8995819						
LINDENRIGHT GOLDWYN DOLLAR-ET	CAN 9652932						
LINDENRIGHT GOLDWYN DYNASTY-ET	CAN 9652931						1
LINDENRIGHT GOLDWYN ROYCE-ET	CAN 9652893						1
LINDENRIGHT MORTY DELICIO	CAN 8656390						
LINDENRIGHT TOYSTORY DESTINY	CAN 7971074						
LINDENRIGHT TOYSTORY DREAM-ET	CAN 8995818						
LINDLAUR FEVER FANNIE-ET	USA 70851962						
LINDLAUR GABOR ANNETTE	USA 65830539						
LINDLAUR GDWN TIMESQUARE-ET	USA 70851786						
LINDLAUR GOLDWYN EMILY-ET	USA 68679143						
LINDLAUR LARGE SALTINE	USA 70851904						
LINDLAUR MAC SWEETHEART-ET	USA 65830221						
LINDLAUR MONTROSS AUBREY-ET	USA 70852185						
LINDLAUR MONTROSS AUDREY-ET	USA 70852188						
LINDLAUR ZENTH STARLIGHT-ET	USA 63350342						
LINDRA BANNING OVIA BAVIA	USA 70750433						
LINDYS ATLANTIC WACKY	USA 71725638						
LINERWAY ACME AMBER-ET	USA 72229050						3
LINERWAY ALCHEMY LIBRA-RED	USA 72228967		C				3
LINERWAY ALCHEMY SPELL-RED	USA 72228968						1
LINERWAY ASHCK LYNETTE 9792	USA 68890366					C	
LINERWAY BAYONET LIPLINK	USA 73699706						
LINERWAY BEACON LIGHT	USA 69290749						
LINERWAY BELUGA LUGA	USA 73699394	C					
LINERWAY BOWSER CHA-CHA-ET	USA 69290654						
LINERWAY BRAXTON ALFALFA-ET	USA 70781779						
LINERWAY BRAXTON APRICOT-ET	USA 70781776						
LINERWAY BWIRE LOLLY-RED-ET	USA 73699469						
LINERWAY CAMERON FIRESKY	USA 70781889						
LINERWAY CAMERON GUSTY	USA 70781925						
LINERWAY CIVIL LEANN-ET	USA 73699602						
LINERWAY COLBY FIREFLY-ET	USA 65004332						
LINERWAY COLT CUPID	USA 70781853						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

192

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINERWAY COLT LIVELY P-RED	USA 70781838		C				
LINERWAY CONTRAST LEXY	USA 70781840						
LINERWAY DAY CRACK	USA 72229091						
LINERWAY DENVER CHANALL-TW	USA 73699722						
LINERWAY DENVER CHINA-TW	USA 73699723						
LINERWAY DOORMAN LIPSMAC	USA 72229103					C	
LINERWAY DPRINCE LATIFA-RED	USA 72228966						3
LINERWAY EPIC CHANGE	USA 72228970						
LINERWAY EXPLODE ALPINE-ET	USA 70781798						3
LINERWAY EXPLODE AUTUMN-ET	USA 70781797						
LINERWAY EXPLODE LYRA	USA 69290716						
LINERWAY FACEBOOK GLEE	USA 70781906						1
LINERWAY G CHIP COCONUT-ET	USA 70781814						
LINERWAY G CHIP COCOPUFF-ET	USA 70781833						
LINERWAY GERARD LOIS	USA 69290732	C					
LINERWAY GILLESPIY CASSET-ET	USA 72229014						
LINERWAY GILLESPIY LASSOW-ET	USA 72228989	C					
LINERWAY GOLD CHIP LELA	USA 70781841	C					
LINERWAY GREENDAY GOOGLE	USA 73699471						
LINERWAY HALOGEN CURRIE	USA 73699467						
LINERWAY HALOGEN LAMP	USA 73699490						
LINERWAY HALOGEN LORAX	USA 73699556						
LINERWAY HEADLINER GIG	USA 72229001						
LINERWAY IOTA COVERGIRL	USA 69290758						
LINERWAY IOTA LILIANA	USA 69290756						
LINERWAY JABIR GOLDIE	USA 73699475						
LINERWAY JABIR LULLABY	USA 72229150						
LINERWAY JACEY LIZABEL	USA 72229151						
LINERWAY JAKE COWALLA	USA 73699586						
LINERWAY KINGPIN JUSTINE	USA 73699595						
LINERWAY KINGPIN LABELL	USA 73699587						
LINERWAY KRUNCH CHICA	USA 72229106						
LINERWAY L BOY SWAN-RED-ET	USA 65004339	C					1
LINERWAY LAYNE COKE	USA 72229137						
LINERWAY LIMOCAR CARNY	USA 72229108						
LINERWAY MACK EMILY	USA 72229162						3
LINERWAY MACK FRACK-TW	USA 73699407					C	
LINERWAY MAN-O-MAN FIREGIRL	USA 69290760						
LINERWAY MASSEY FIRESTORM	USA 72229015						
LINERWAY MASSEY JEAN-ET	USA 72228990						
LINERWAY MAYFIELD CHI-CHI	USA 70781929			C			
LINERWAY MCCUTCHEN LEAH	USA 72229045						
LINERWAY MCCUTCHEN LOTTA	USA 72229065						
LINERWAY MOGUL LAZITA	USA 72229034						
LINERWAY MOGUL LUNAR	USA 72229016						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

193

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINERWAY MONTEREY FLURRY	USA 73699709						
LINERWAY MONTEREY GIGI	USA 73699705						
LINERWAY MONTEREY GLORIA	USA 73699644						
LINERWAY MONTEREY SALTY	USA 73699680						
LINERWAY MONTROSS DIXIE	USA 73699588						
LINERWAY MONTROSS GINGER	USA 73699497						
LINERWAY NUMERO UNO GAYLE	USA 72228965						
LINERWAY PALERMO FIRELITE	USA 69290727						1
LINERWAY PEMBROK SOX-RED-ET	USA 69290754	C		C			1
LINERWAY PLANET LAYLA	USA 65007178	C					
LINERWAY PLANET LIZZIE	USA 65007211		C				3
LINERWAY PONDER LONDON	USA 73699520					C	
LINERWAY PURE GOLD	USA 73699552						
LINERWAY RACER LOLITA	USA 73699578						
LINERWAY ROSS CHELSIE	USA 69290748						
LINERWAY SACHEL SHELLY-RED	USA 69290746						
LINERWAY SHAMROCK JUDY	USA 70781826						
LINERWAY SHMROCK CHANCE	USA 70781824						
LINERWAY SILVER CRASMAS	USA 73699720						
LINERWAY SILVER FEATHER	USA 73699685						
LINERWAY SILVER GEISHA	USA 73699724						
LINERWAY SILVER GLITTER-ET	USA 73699671						
LINERWAY SONIC FIONA-ET	USA 70781870					C	
LINERWAY SONIC FREEZE-ET	USA 70781876					C	
LINERWAY SONIC FRESH-ET	USA 70781869					C	
LINERWAY SONIC FRIDGE-ET	USA 70781882					C	
LINERWAY SONIC FRUGAL-ET	USA 70781948					C	
LINERWAY SPRING CUDLY	USA 73699691						
LINERWAY SUDAN LINDO	USA 72228997						
LINERWAY SUDAN LINETTE	USA 72229006						
LINERWAY SUPERSIRE FRIO-ET	USA 72229097						
LINERWAY SUPERSIRE GIFT	USA 72229087						
LINERWAY SUPERSIRE LETTUCE	USA 72229060						
LINERWAY SUPERSONIC JOYFULL	USA 70781941						
LINERWAY SUPERSONIC LUPE	USA 70781938					C	
LINERWAY SUPRSIRE FRENZY-ET	USA 72229152						
LINERWAY SUPRSIRE FROSTY-ET	USA 72229163						
LINERWAY TANGO FEAST-ET	USA 73699432		C				
LINERWAY TANGO FIZZ-ET	USA 73699437						
LINERWAY TANGO FLAME-ET	USA 73699414		C				
LINERWAY TANGO FLUSH-ET	USA 73699433		C				
LINERWAY TANGO LINELLE	USA 72229138		C				
LINERWAY TEACHER GABBY-ET	USA 73699473						
LINERWAY TEACHER GAIL-ET	USA 73699476		C				
LINERWAY TOUCHDOWN LUFA	USA 73699584						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

194

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LINERWAY UNO ACORN-ET	USA 70781946						3
LINERWAY UNO FLAKE-ET	USA 70781888						
LINERWAY UNO FRIGID-ET	USA 70781887					C	
LINERWAY UNO GAGA-ETS	USA 70781918						
LINERWAY UNO GOGO-ETS	USA 70781917						
LINERWAY YODER LINDA	USA 73699656	C					
LINERWAY-CM ABSOL SPAZ-ET	USA 73699435						
LINGLE BOLTON FRISKY	USA 65270002						
LINGLE DD FEARSOME	USA 65269950						
LINGLE MILLION HALEY H-ET	USA 70569953		C				
LINGLE RACER FRECKLES-ET	USA 65269942						
LINHOLM ADAM MARIEKA	USA 61652420						
LINHOLM BOGART MACOY	USA 69228962			C			
LINHOLM BOOKEM FAIRYTALE	USA 70782482						
LINHOLM COLBY	USA 66130534						
LINHOLM DORCY FRITZI	USA 70782458						
LINHOLM GALLON FRANKIE	USA 70782496						
LINHOLM GARRETT WANDERER	USA 70782490						
LINHOLM GOLD CHIP SPARKLES	USA 71761869						
LINHOLM JIVES PS-TW	USA 70782507	C					
LINHOLM JIVES PT-TW	USA 70782508	C					
LINHOLM LES YADIR	USA 70782459						
LINHOLM MAC DODO	USA 66130557	C					
LINHOLM MANIFOLD MARISSA	USA 70782473						
LINHOLM MARION RUBENS	USA 63585621						
LINHOLM MILLION ROWEENA	USA 69228970		C				
LINHOLM MOGUL STAR	USA 71761941					C	
LINHOLM OSMOND BASQUE	USA 70782478						
LINHOLM PADDY DELANEY-TW	USA 70782453						
LINHOLM PADDY DEWEY-TW	USA 70782452						
LINHOLM PEMBROKE WHEEL	USA 70782445						
LINHOLM PETRONE SASHA	USA 71761940	C					
LINHOLM PLANET WHEELER	USA 66130589						
LINHOLM PRENTICE RALEIGH	USA 69228948						
LINHOLM SHAMROCK MOONBEAM	USA 71761890						
LINHOLM SHOTTLE SHOTZY	USA 69229017					C	
LINHOLM SUPER PEYTON	USA 70782529						
LINHOLM SUPER QUARTZ	USA 70782513						
LINHOLM SUPER SANDY	USA 69229013						
LINITA GOLDSTAR ANSWER	840003130398595						1
LINN-LITE DON JUAN SAMIRA	USA 68874523						
LINN-LITE DUDAD SUNFEST	USA 71743752						1
LINN-LITE PLANET MARY	USA 71743731						
LINN-LITE SHARKY SUE	USA 65423642						
LIPPLY DEMPSEY LACE-ET	USA 142723687						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LIPPLY DEMPSEY LADY-ET	USA 142723481						
LIPPLY DEMPSEY LIPSTICK-ET	USA 142723584						1
LIPPLY OUTSIDE SHELBY	USA 139852435		C				
LIQUIDSUN EPIC ATM-ET	USA 72193404						
LIQUIDSUN HOTTY-RED-ET	840003124680312						
LIQUIDSUN MC BOUGAINVILLEA	840003124680385						
LIRR BEAR-P OUTFIT OZZY-ET	USA 71013041						
LIRR BIONICA DIEHARD DOT-ET	USA 62033182						
LIRR BIONICA GOLDWYN DEB-ET	USA 62033185						1
LIRR BIONICAGOLDWYN EMMA-ET	USA 62033198						
LIRR BOLIVER BRITA FRED-ET	USA 63068901						
LIRR CHIPER IRA ARCADIA-ET	USA 72679180						
LIRR CHIPPER IRA ACCORD-ET	USA 72679177						
LIRR CHIPPER IRA INEZ-ET	USA 72679198						
LIRR CHIPPER-P IRA INEZ-ET	840003125220940						
LIRR COLTDOVE DALLIS-RED-ET	USA 71013050						
LIRR DEBOER SHOTTLE EMM	USA 56183347						
LIRR DEMPSEY APHRODITE-ET	USA 71013043					C	1
LIRR DEMPSEY DORA IXONIA	USA 69693553						1
LIRR DESTROY SPECIAL HONI-ET	USA 69693512						
LIRR EARNHARDT OAK OASIS-ET	USA 72679174						
LIRR EARNHARDT OAK OATS-ET	USA 72679175						
LIRR EARNHARDT OUTFIT OFTEN	USA 72679156						
LIRR EARNHT OAK OUTCAST-ET	USA 72679178						
LIRR EFFECT GIN BRITE P	USA 71013065						
LIRR EFFECT HEATHER MACY	USA 72679179						
LIRR EFFECT KENTUCKY	840003125220961						
LIRR EFFECT RAEGAN	840003125220964						
LIRR EFFECT SAMMY	USA 72679163						
LIRR ERASER OUTFIT OERO-ET	840003125220946						
LIRR ERNHRDT AEROCHROME-ET	USA 71013067						
LIRR EXPLODE ELLA HAVEN	USA 69693519						
LIRR JARDIN MISCHA FANCY	USA 63068899						
LIRR KINGBOY ARIA	840003125220978						
LIRR LADD DOVE DANIE-RED-ET	USA 72679202						1
LIRR LADD DOVE DEMI-RED-ET	USA 71013051						1
LIRR LADD DOVE DIXIE-RED-ET	USA 71013052						1
LIRR LADD OPPERTUNITY-ET	USA 72679159						1
LIRR MAG ARIZON IRA P-ET	USA 69693535						
LIRR MAGNA-P ARIZONA I P-ET	USA 69693527						
LIRR MILLION AHCHOU DAYQUIL	USA 69693525		C				
LIRR MILLION MISCHA IDA-ET	USA 69693530						
LIRR MILNGTN OUTCT 7101P-ET	840003131003180						
LIRR MILNGTN OUTCT 7102P-ET	840003131003181						
LIRR MITEY BRITA INGA-ET	USA 69693529						1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

196

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LIRR MITEY SPECIAL P-RED	USA 69693541						1
LIRR MNSFLD OUTCST 7141-ET	840003131003220						
LIRR MOGUL AHCHOU DUMPY	USA 71013053						
LIRR MOGUL OUTFIT OLIVE-ET	USA 71013046						
LIRR MOGUL SPEACIAL SILVIA	840003125220973						
LIRR MONTROSS OUTFIT O	840003125220970						
LIRR OAK COBO JASMIN-ET	USA 72679196						
LIRR OAK COBO JESSICA-ET	USA 72679194						
LIRR OAK ELLA	840003125220962						
LIRR OAK ICICLE ICE	USA 72679197					C	
LIRR OHARE OUTFIT ORRIS-ET	USA 72679203						
LIRR OHARE-P OUTFIT OHM-ET	USA 72679201			C			
LIRR OHIO STYLE FAITH-ET	USA 72679191						
LIRR OHIO STYLE FROLIC-ET	USA 72679192						
LIRR PLANET BRITA FE-ET	USA 63068906						
LIRR RELEF SPECIAL SASSY-ET	USA 72679171						
LIRR RELIEF S SIESTA-RED-ET	USA 72679173						1
LIRR RUSSELL DEB HATTIE	USA 69693509						1
LIRR SHANOSBER OAK ELM-ET	USA 72679186						
LIRR SHANOSBER OAK OAKLY-ET	USA 72679184						
LIRR SHOTTLE DREW AHCHOU-ET	USA 66507004			C			
LIRR SILVR OUTCST 7066P-ET	840003131003145						
LIRR SLVR OUTCST 7060 P-ET	840003131003139						
LIRR SPECIAL ICE-RED-ET	USA 69693538						
LIRR SPECIAL ICICLE P-ET	USA 69693536					C	
LIRR SSI HMRN OUTCST7042-ET	840003131003121						
LIRR SSI HOTS OUTC 7137P-ET	840003131003216					C	
LIRR SSI HOTS OUTC 7139P-ET	840003131003218					C	
LIRR SUPER ARIZONA ITTO-ET	USA 69693539						
LIRR SYM SPECIAL SECRET-RED	USA 72679199			C			1
LIRR SYMPATICO ICE SILLY	USA 72679187						
LIRR WINDAHCHOU DAYQUIL-ET	USA 71013036			C			
LISMORE ADVENT RENEE-RED-ET	USA 65529474						
LISMORE ADVENT ROXY-RED-ET	USA 65529556						1
LISMORE AIRRAID GABBY-ET	USA 65529473						
LISMORE AIRRAID GAIL-ET	USA 65529481					C	
LISMORE ATLANTIC CALI-ET	USA 68729905						
LISMORE ATLANTIC CAMMY-ET	USA 68729915						
LISMORE ATLANTIC CARLA-ET	USA 68729892						
LISMORE ATLANTIC CARMA-ET	USA 68729916						
LISMORE ATLANTIC CARROT-ET	USA 68729906						
LISMORE ATLANTIC COCOMO-ET	USA 70599448						
LISMORE ATLANTIC COSMO	USA 70087713						
LISMORE BEACON BRANDY-ET	USA 68729897					C	
LISMORE BEACON BRIE-ET	USA 68729900						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LISMORE BEACON BRYN-ET	USA 68729891					C	
LISMORE BOLTON DOOPY-ET	USA 65529408						
LISMORE BOLTON MANDY-ET	USA 65529411			C			
LISMORE BOLTON MISSY-ET	USA 65529410			C			
LISMORE BOOKEM 3412	USA 68730248						
LISMORE BOOKEM SILLY-ET	USA 68730574						
LISMORE BUTTER CAKE-ET	USA 66893936					C	
LISMORE CALIBER JENNY-ETS	USA 68730294						
LISMORE CALIBER JILL-ET	USA 68730306						
LISMORE CHARLIE 3500-TW	USA 68730336						3
LISMORE CHARLIE 3501-TW	USA 68730337						3
LISMORE CLARK CANDY-ET	USA 68730147					C	
LISMORE CLARK CATHY-ET	USA 68730148						
LISMORE COLT P LIZ-ET	USA 72986424						
LISMORE DELTA 7002-ET	840003134376794						
LISMORE DELTA 7011-ET	840003134376803		C				
LISMORE DELTA 7075-ET	840003134376867						
LISMORE DELTA 7091-ET	840003134376883						
LISMORE DELTA 7110-ET	840003134376902						
LISMORE DELTA ALI 6467-ET	840003126680435						
LISMORE DELTA ANN 6471-ET	840003126680439			C			
LISMORE DELTA ANNA-ET	840003126680429			C			
LISMORE DELTA AVA 6472-ET	840003126680440						
LISMORE DESTROY 2352	USA 68729188						
LISMORE DOMAIN 3610	USA 68730446						
LISMORE G W ATWOOD CANDY-ET	USA 68730314						
LISMORE GOLD CHIP 4616	840003010438764					C	
LISMORE HALOGEN 6077	840003126680045						
LISMORE HEADLINER 4668	840003010438816					C	
LISMORE HEADLINER 5303	840003013446541						
LISMORE JEEVES DUCKY-ET	USA 65530092						
LISMORE JEEVES GLOSS-ET	USA 68728991					C	
LISMORE KINGBOY BELLA-ET	840003126680026						
LISMORE KINGBOY BRANDY-ET	840003013447222						
LISMORE KINGBOY DILLY-ET	840003126680054						
LISMORE KINGBOY DOT-ETS	840003126680048						
LISMORE KINGBOY TOT 6200-ET	840003126680168						
LISMORE LAYNE 4955	840003010439103						
LISMORE LIESL DIANE-ET	USA 68729959					C	
LISMORE LIESL DORI-ET	USA 68729948						
LISMORE LITHIUM TINA-ET	840003010438748						
LISMORE LVM HALO MISTIQUE	USA 143119564						
LISMORE MAGENTA 5085	840003013446323		C				3
LISMORE MAYFIELD 4721	840003010438869						
LISMORE MAYFIELD 5147	840003013446385						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

198

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LISMORE MAYFIELD CALLIE-ET	840003010438567						
LISMORE MAYFIELD CUTTER-ET	840003010438551			C			
LISMORE MCCUTCHEN 4988	840003010439136						
LISMORE MCCUTCHEN 5055	840003013446293						
LISMORE MEGASIRE 5928	840003013447166						
LISMORE MEGASIRE BRAN-ET	840003013447228						
LISMORE MEGASIRE BRITT-ET	840003126679969						
LISMORE MEGASIRE TERI-ET	840003126679986						
LISMORE MEGASIRE TILLI-ET	840003126679982						
LISMORE MERIDIAN 5164	840003013446402						
LISMORE MERIDIAN PAISLY-ET	840003013446249						
LISMORE MERIDIAN PAM-ET	840003013446241						
LISMORE MERIDIAN POM POM-ET	840003010439140						
LISMORE METAL 5152	840003013446390						
LISMORE MISTY	USA 73598442						
LISMORE MOGUL 4491	840003010438639						
LISMORE MOGUL 5133	840003013446371						
LISMORE MOGUL BRANDI CRI-ET	840003011817161						
LISMORE MOGUL BRANDI-ET	840003010438609						
LISMORE MOGUL BUFFY CRI-ET	840003011817155						
LISMORE MOGUL CAROL-ET	840003010438560						
LISMORE MOGUL CORA-ET	840003010438565					C	
LISMORE MOGUL DONNA-ET	840003010438623						
LISMORE MOGUL MIDGE-ET	840003010438550						
LISMORE MOGUL MINDY-ET	840003010438546						
LISMORE NILA CRI-ET	USA 70541672						
LISMORE NIXIE CRI-ET	USA 70541684						
LISMORE NUMERO UNO MARY-ET	840003010438437						
LISMORE NUMERO UNO MILLY-ET	840003010438451						
LISMORE NUMERO UNO TAMI-ET	840003010438626						
LISMORE NUMERO UNO TARA-ET	840003010438625						
LISMORE OBS APPLEJAX-ET	840003008316129						
LISMORE OBSERV OLIVE-ET	USA 71494795						
LISMORE OBSERVER TAMMY-ET	USA 68729950						
LISMORE OBSERVER TIGER-ET	USA 68729958						
LISMORE OSMOND 3575	USA 68730411						
LISMORE OUTSIDE 8202	USA 62538772						
LISMORE POTTER 8152	USA 62538722						
LISMORE ROBUST PAM-ET	USA 68730307						
LISMORE ROBUST PING-ET	USA 68730316						
LISMORE ROBUST RILEY-ET	USA 71494794						
LISMORE SHAMAN 8178	USA 62538748						1
LISMORE SHAMROCK MAX-ET	840003010438417						
LISMORE SHOTTLE 9245	USA 65529536						
LISMORE SHOTTLE APPLE-ET	USA 65529964						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LISMORE SHOTTLE APRICOT-ET	USA 65529973					C	1
LISMORE SHOTTLE ARIEL-ET	USA 65529972						
LISMORE SHOTTLE BELLA-ET	USA 66893917					C	
LISMORE SHOTTLE CALLIE-ET	USA 65530180					C	
LISMORE SHOTTLE CANDY-ET	USA 65530195					C	
LISMORE SHOTTLE CARLA-ET	USA 65530168						
LISMORE SHOTTLE DANDY-ET	USA 65530089						
LISMORE SHOTTLE DEBBIE-ET	USA 68728989						1
LISMORE SHOTTLE DOLL-ET	USA 65530095					C	
LISMORE SHOTTLE DONNA-ET	USA 65530097					C	
LISMORE SHOTTLE DORA-ET	USA 65530265					C	
LISMORE SHOTTLE RYE-ET	USA 65530067					C	
LISMORE SUPERSIRE 5302	840003013446540						
LISMORE SUPERSIRE DAFFY-ET	840003010438740						
LISMORE SUPERSIRE DINA-ET	840003010438721						
LISMORE SUPERSIRE DOVE-ET	840003010438731						
LISMORE TIME 2315	USA 68729151						
LISMORE TOYSTORY 8676	USA 63731736						
LISMORE TRIGGER 3572	USA 68730408						
LITTLE RIVER GOLDWYN RIDA	CAN 9747844						
LITTLE-STAR BEST CARI-ET	USA 61714023						
LITTLE-STAR OSIDE OLIVIA-ET	USA 61238647						
LITTLE-STREAM AFD SPICEY-ET	USA 62758947						
LITTLE-STREAM EXTRA DANDY	USA 61203514						
LITTLE-STREAM LYDON RHODA	USA 70851522						
LITTLE-STREAM MDAGGER RALLY	USA 69087920						
LITTLE-WISCO LAURA CRI-ET	USA 62769158						
LITTLE-WISCO LEIGHA CRI-ET	USA 62769160						
LITTLE-WISCO LINA CRI-ET	USA 62769159						
LIV-A-DREAM CASSADEE-P-RED	840003012494038						3
LIZ-ET	NLD 485393075						
LJK-ACRES DYMON SANTA MARIA	840003130279542						
LJK-ACRES MOGUL MIKA	USA 74185332						
LJK-ACRES PUNCH ROBIN	840003130279557						
LJP ADDICT KANDIS P-ET	USA 74466674						1
LJP ADDICT KASNDRA P-RED-ET	USA 74466673						1
LJP ADDICT KENDRA-P-RED-ET	USA 74466670						
LJP ADDICT KEY-P-ET	USA 74466675						
LJP AL ZING	USA 71274694						
LJP ALTAOAK Z DEB-ET	USA 72529521						
LJP ANAHEIM BRANDI-ET	USA 74466680						1
LJP ANAHIEM BONNIE-ET	840003130792034						
LJP BAX LOOY-ET	USA 65393305					C	
LJP BOL ALEXIS	USA 69960768						
LJP BOMBERO CATRENNA	840003130792029						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

200

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LJP BOWSER LILA-ET	USA 69960770					C	
LJP BRIELLE	USA 74466668						
LJP BRO LACEY	USA 69960761						
LJP BRO LUSTY	USA 69960753			C			
LJP CASHCOIN Z CINDY-ET	USA 73522288						
LJP CASHCOIN Z OLLIE-ET	USA 73522295						
LJP CMNDR IVY-ET	USA 74466684						
LJP COLI PATY-ET	USA 71274634						1
LJP COLT MADEA P-RED-ET	USA 71274655						
LJP COLT PAM P-ET	USA 71274622						
LJP COMMANDER IRANIAN-ET	840003130792043						
LJP COMMANDER ITALIA-ET	840003130792035						
LJP COMMANDER LJP IREEN-ET	USA 74466688						
LJP CRANK Z VELMA	840003130792072						
LJP DALT MADGE	USA 69960794						
LJP DAY BOO-BOO-ET	USA 72529472						
LJP DRACO CLAD-ET	840003130792067						
LJP DRACO CLASSIE-ET	840003130792068						
LJP EMLD LOIS	USA 71274653	C				C	
LJP EPIC LACEY-ET	USA 72529514						
LJP EPIC LASSY-ET	USA 71274689						
LJP EPIC LAZI-ET	USA 72529509						
LJP EPIC LEA-ET	USA 71274674						
LJP EPIC LINGO-ET	USA 71274687						
LJP EPIC LOOTY-ET	USA 71274673						
LJP EXP ZETI	USA 69960823						
LJP FRED REALLY-ET	USA 69960756						
LJP FRED RIZE-ET	USA 69960766						
LJP FRED ROSA-ET	USA 69960743						
LJP GAL LAM	USA 72529534						
LJP GER LOTS	USA 69960819						
LJP GILLESPIE BETSY-ET	USA 72529445						
LJP GOLDSUN Z WENDY-ET	USA 73522276						
LJP HAL BOBBI-ET	USA 74466658						
LJP HAL LEPORD-ET	USA 73522307						
LJP HALOGEN CANDY-ET	USA 74466663						
LJP HALOGEN CASSEY-ET	USA 74466660						
LJP KB RB IDA-ET	USA 74466690						
LJP KING CADIE-ET	USA 74466681						
LJP KING CHERRY-ET	USA 74466676						
LJP KING COURTNEY-ET	USA 74466677						
LJP KINGBOY ILENE-ET	840003130792057						
LJP KINGBOY INDONA-ET	840003130792055						
LJP KINGBOY ISADORA-ET	840003130792015						
LJP KINGBOY ISHMIELL-ET	840003130792047						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

201

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LJP KINGBOY ISLUSA-ET	840003130792056						
LJP KINGBOY IZADORA-ET	840003130792048						
LJP LAR LUST-ET	USA 71274681		C			C	3
LJP LAR LUSTY-ET	USA 71274684		C				
LJP LB V-ET	USA 66976096						
LJP LOCVAR LIPPER	USA 74466634						
LJP MAGNA V-ET	USA 72529500						
LJP MAGNA V-SUE-ET	USA 72529507						
LJP MEGASIRE CLAIRE-ET	USA 74466662						
LJP MIT PATEY-RED	USA 69960735						
LJP MOM LUV-ET	USA 69960798						
LJP MS ANAHIEM BONZO-ET	840003130792021						1
LJP MUSCADET BARBINI	840003130792053						
LJP MUSCADET Z SUN-ET	840003130792082						
LJP NIA LANEY-ET	USA 69960775						
LJP NIA LASSE-ET	USA 69960769						
LJP OAK LASY	USA 72529516					C	
LJP OBS LANEY	USA 71274617						
LJP OLYMPIAN KITKAT	840003130792025						
LJP PD Z SARA-ET	USA 72529527						3
LJP PLAN LEEZA	USA 69960778						
LJP POWERBALL-P KADE-ET	840003130792051						
LJP POWERBALL-P KADENI-ET	840003130792058						
LJP POWERBALL-P KINERA-ET	840003130792052						
LJP PRE Z SALLY-ET	USA 72529536						3
LJP PRONTO LIZZ-ET	USA 65393330						
LJP PRONTO LUZ-ET	USA 65393288					C	
LJP PROTO LOLA-ET	USA 65393308						
LJP RAC BABE-ET	USA 74466639						1
LJP RAC BECCA-ET	USA 73522309						
LJP RAC BECKI-ET	USA 74466635						
LJP RAC BIB-ET	USA 74466646						1
LJP RAC BIBY-ET	USA 74466649						1
LJP RAC BOBBI-ET	USA 74466651						
LJP RAC BOTTOMS UP-ET	USA 73522306						
LJP RAMOS LIZ-ET	USA 65393292						
LJP SHAN LIELA	USA 72529510						
LJP SHOTTLE LOVE-ET	USA 137679441					C	
LJP SUPER LUC	USA 66976151						
LJP SUPERSHOT LENNY	840003130792077						
LJP TROY Z ZELTA	840003130792084						
LJP W-E PATTY-ET	USA 72529477						
LJP WB LIBBEY	USA 71274658					C	
LJP WBEX PAT-ET	USA 72529457						
LJP Z DAWD-ET	USA 72529522						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

202

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LJP Z DEE DEE-ET	USA 72529526						
LKI-DB SUPER PAOLI-ET	USA 69365694						
LKI-RH DECLAN KIRSTEN-ET	USA 73128263						
LKI-RH-K ATWOOD CARRIE-ET	840003126758971						
LLR LADY ARMANI	840003127381688						2
LO-LEE LESLIE DUNDEE SHOUT	USA 142659676						
LO-LEE LILAC ROY SHOUT	USA 142659685						
LO-PINE RENALDI NELL	USA 140667808						
LO-PINE-VA AFTERSHCK LILAC	USA 72930534						
LOA-CR ELOQUENT ROCHELLE-ET	USA 71586014						
LOA-CR EPIC ROBERTA	840003132122729						
LOA-CR LOTTOMAX RAELENN-ET	USA 71586030						
LOA-CR LOTTOMAX REBECCA-ET	USA 71586027						
LOA-CR MACK RAESHELL	USA 71586019						
LOA-CR MACK ROSALIND	USA 71586018						
LOA-CR SAVE MACKENZIE-RED	USA 71586025						
LOA-CR SAVE MAXINE-RED-ET	USA 71586023						
LOA-CR TANGO RALEIGH	840003132122730		C	C			
LOCHDALE SHAQUILLE MISSY-RED	CAN 11102302						
LOCHMEAD 669	USA 74171986						
LOCHMEAD 681	USA 74171998						
LOCHMEAD 684	USA 74172001			C			
LOCHMEAD A-P 5388	USA 70834758						
LOCHMEAD AIRRAID 4133	USA 64693506						
LOCHMEAD BELUGA 522	USA 74171839			C			
LOCHMEAD BOWSER 5129	USA 70188596						
LOCHMEAD BOWSER 5132	USA 70188599						
LOCHMEAD BOWSER 5185	USA 70188652						
LOCHMEAD BOYBOY 5450	USA 71493538						
LOCHMEAD BOYBOY 5452	USA 71493540						
LOCHMEAD BOYBOY 5457	USA 71493545						
LOCHMEAD BOYBOY 5465	USA 71493553						
LOCHMEAD BOYBOY 5481	USA 71493569						
LOCHMEAD CABRIOLET 588	USA 74171905						
LOCHMEAD CAMERON 15	USA 72252347						
LOCHMEAD CAMERON 5	USA 72252337						
LOCHMEAD CANCUN 91	USA 72252423						
LOCHMEAD CASSINO 5156	USA 70188623						
LOCHMEAD CASSINO 5163	USA 70188630						
LOCHMEAD CHAP 5474	USA 71493562						
LOCHMEAD CHOPS 584	USA 74171901						
LOCHMEAD CLARK 5187	USA 70188654						
LOCHMEAD DANNO 580	USA 74171897						
LOCHMEAD DELIGENT 101	USA 72252433						3
LOCHMEAD DELIGENT 113	USA 72252445						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

203

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOCHMEAD DELIGENT 63	USA 72252395						
LOCHMEAD DELTA 658	USA 74171975						3
LOCHMEAD DELTA 659	USA 74171976						
LOCHMEAD DOMAIN 5475	USA 71493563						
LOCHMEAD DOMAIN 5477	USA 71493565						
LOCHMEAD DOORMAN 253	USA 72839825						
LOCHMEAD DOORMAN 255	USA 72839827						
LOCHMEAD ELECTION 290	USA 72839862						
LOCHMEAD EMERALD 31	USA 72252363						
LOCHMEAD ESCAPE 5350	USA 70834720						
LOCHMEAD FREDDIE 5134	USA 70188601						
LOCHMEAD FREDDIE 5174	USA 70188641						
LOCHMEAD FREDDIE 5297	USA 70834667						
LOCHMEAD HALOGEN 545	USA 74171862						
LOCHMEAD HALOGEN 597	USA 74171914						
LOCHMEAD HALOGEN 599	USA 74171916						3
LOCHMEAD HALOGEN 602	USA 74171919						
LOCHMEAD HALOGEN 604	USA 74171921						
LOCHMEAD HALOGEN 605	USA 74171922						
LOCHMEAD HALOGEN 608	USA 74171925						
LOCHMEAD HALOGEN 637	USA 74171954						
LOCHMEAD HALOGEN 654	USA 74171971						
LOCHMEAD HIGHWAY 263	USA 72839835			C			
LOCHMEAD HITECH 5131	USA 70188598						
LOCHMEAD INDY 324	USA 72839896						
LOCHMEAD IOTA 5159	USA 70188626						
LOCHMEAD JABIR 494	USA 72840066						
LOCHMEAD JABIR 499	USA 72840071			C			
LOCHMEAD JABIR 502	USA 74171819						
LOCHMEAD JAKE 5130	USA 70188597						
LOCHMEAD KRUNCH 279	USA 72839851						
LOCHMEAD LATIMER 297	USA 72839869						3
LOCHMEAD LITHIUM 57	USA 72252389						
LOCHMEAD LITHIUM 90	USA 72252422						
LOCHMEAD MCCUTCHEN 185	USA 72252517						
LOCHMEAD MOGUL 14	USA 72252346						
LOCHMEAD MOGUL 27	USA 72252359						
LOCHMEAD MOGUL 4	USA 72252336						
LOCHMEAD MOGUL 40	USA 72252372						
LOCHMEAD MOGUL 48	USA 72252380						
LOCHMEAD MOGUL 6	USA 72252338						
LOCHMEAD MOGUL 64	USA 72252396						
LOCHMEAD MOGUL 9	USA 72252341	C					
LOCHMEAD MONTROSS 624	USA 74171941						
LOCHMEAD MONTROSS 626	USA 74171943						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

204

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOCHMEAD MONTROSS 655	USA 74171972						
LOCHMEAD OAK 333	USA 72839905						
LOCHMEAD OAK 559	USA 74171876						
LOCHMEAD RANSOM 408	USA 72839980						
LOCHMEAD RANSOM 603	USA 74171920						
LOCHMEAD RANSOM 634	USA 74171951						
LOCHMEAD ROCKY 483	USA 72840055						
LOCHMEAD SARGEANT 37	USA 72252369						
LOCHMEAD SHOTGLASS 274	USA 72839846						3
LOCHMEAD SUPERSIRE 129	USA 72252461						
LOCHMEAD SUPERSIRE 149	USA 72252481						
LOCHMEAD SUPERSIRE 150	USA 72252482						
LOCHMEAD SUPERSIRE 154	USA 72252486						
LOCHMEAD SUPERSIRE 379	USA 72839951						
LOCHMEAD SUPERSIRE 65	USA 72252397						
LOCHMEAD TROY 677	USA 74171994						
LOCKER-LANE DELTA BLOSSOM	USA 143310424						
LOCKER-LANE MOGUL BRIT-ET	USA 142686218						
LOCKER-LANE OBSERVER BEAUTY	USA 142998456						
LOCKER-LANE RULPH BRITTANY	USA 121752150						
LOCUS-LANE DEANN 2465	USA 66110085						
LOCUST-AYR C MACHO LIPSTICK	USA 143712516						
LOCUST-AYR CLARK MINNOW	USA 141530037						
LOCUST-AYR DADDY 4343	840003133184315						3
LOCUST-AYR DADDY MECCA-ET	USA 142343612						
LOCUST-AYR DADDY MOLLY-ET	USA 142287174					C	
LOCUST-AYR DADDY MYRA-ET	USA 142287165		C				
LOCUST-AYR DAY ANNA	USA 142501245						3
LOCUST-AYR DAY FIONA	USA 142492419		C				
LOCUST-AYR DESTROY INDY	USA 139793864						
LOCUST-AYR DORCY ALIEN	USA 141832643						
LOCUST-AYR DRBL MIKAYLA-RED	USA 141832634						3
LOCUST-AYR EXPLODE TATER-ET	USA 142227172						
LOCUST-AYR MAGENTA MAUI-ET	USA 142622342						
LOCUST-AYR MARMAX IZZY	USA 137258208						
LOCUST-AYR MGN MAGIC-RED-ET	USA 142622351						3
LOCUST-AYR OUT DONE MELISSA	USA 143480262		C				
LOCUST-AYR PEMBROKE MAY-ET	USA 141530457					C	
LOCUST-AYR S-STORM MACY-RED	USA 136464729						1
LOCUST-AYR S-STORM TART-RED	USA 137777242						
LOCUST-AYR SAVAGE ALEXIS-ET	USA 141530475						3
LOCUST-AYR SAVAGE ALLY-ET	USA 141530466						3
LOCUST-AYR SHAQ MISTY-RED	USA 140085235					C	
LOCUST-AYR SHAQ MORI-RED-ET	USA 139908556						
LOCUST-AYR SHOTTLE TIARA-ET	USA 139865903						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

205

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOCUST-AYR SYM MAGGIE-ET	USA 142555637						
LOCUST-AYR SYMPCO MIMIC-RED	USA 142622267						
LOCUST-RIDGE EL MARIE-ET	USA 137831658						
LOCUST-RIDGE ELEG MALISA-ET	USA 61512646						
LOCUST-RIDGE FEVER DECISION	USA 71830591						
LOCUST-RIDGE G MICHELLE-ET	USA 143201915						
LOCUST-RIDGE GWAY MARCIE-ET	USA 143183017						
LOCUST-RIDGE KALI	USA 72625023						
LOCUST-RIDGE LADD MARSHA-RED	USA 71801854						
LOCUST-RIDGE LAUTHRTY MISTY	USA 70876429						1
LOCUST-RIDGE MARANDA-ET	USA 142313723						
LOCUST-RIDGE MASCOT COLLEEN	USA 14892251						
LOCUST-RIDGE MERRY-ET	USA 142316838						1
LOCUST-RIDGE PATTIE-ET	USA 142313705						1
LOCUST-RIDGE RUSH MAVIS-ET	USA 142586394						
LOCUST-RIDGE SHAN MAGGIE-ET	USA 142516948						
LOCUST-RIDGE SHOTTLE REETA	USA 71801821					C	
LOCUST-RIDGE WNDDBROOK BRINA	USA 71640208						1
LOCUST-RIDGE YODER MARIELLE	USA 143605223						
LOCUST-RIDGE ZEUS MATTIE	USA 143183026						
LOCUST-VALE LBOY STACEY-RED	USA 62340244						
LOCUST-VALE RIC IVY	USA 72400221		C				4
LOEHR 998 LEGEND 1694	840003007347328						
LOEHR PALERMO PEACE 1848	840003008400555						
LOESJE 19	NLD 419395214					C	
LOGSDONS ASTRONOMICAL DD	USA 61733559						
LONDON-ENGLAND GING 1363-ET	USA 17246339						
LONDONDALE MASCOT MELLOW-ET	USA 14857905						
LONE-MAPLE DOMINANTP 299-ET	840003129378532						
LONE-MAPLE HESS 658	USA 71892062						
LONE-MAPLE LEADER 61	USA 71892057		C				3
LONE-MAPLE LETS DEAL 296-ET	840003129378529						
LONE-MAPLE LETS DEAL 297-ET	840003129378530						
LONE-MAPLE MITSY-RED-ET	840003129378513						
LONE-OAK ABSOLUT SATURN-RED	840003130709238						
LONE-OAK ABSOLUTE TIANNA	USA 141157050						
LONE-OAK ADVENT FLICKA-ET	USA 138580836						
LONE-OAK ADVENT FURY	USA 71673299						
LONE-OAK ADVENT HORIZON-RED	USA 136620408						1
LONE-OAK AMARILLO FLAMINGO	USA 72647408						
LONE-OAK ATWOOD FLOSSY	USA 73348709						
LONE-OAK ATWOOD FREEWOOD	USA 72647420						
LONE-OAK ATWOOD MAZE	USA 73348726						
LONE-OAK ATWOOD SUNWOOD	USA 72647413						
LONE-OAK BRAXTON KATARINA	USA 70775430						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK BREATHE FELICIA	USA 71673306						
LONE-OAK BREATHE FRODO	USA 72647407						1
LONE-OAK BREATHE TIARA-ET	USA 71673308						
LONE-OAK BREATHE TORA-ET	USA 71673310						
LONE-OAK CASHCOIN FIRE	USA 73348712						
LONE-OAK CASHCOIN FLASH	USA 73348707						1
LONE-OAK CHELIOS FASHION	USA 73348714						
LONE-OAK CHELIOS FOREST	840003130709210						
LONE-OAK CHELIOS FORTUNA	USA 72647423						
LONE-OAK CHELIOS HAWK	USA 73348710						
LONE-OAK CHELIOS MEMORY	USA 73348751						
LONE-OAK CHELIOS SABLE	USA 71673316						
LONE-OAK CHELIOS SCOUT	USA 73348748						
LONE-OAK CHELIOS SUNDIAL	USA 71673302						
LONE-OAK CHELIOS SWEETPEA	840003130709211						1
LONE-OAK CHELIOS TINA	USA 71673315						
LONE-OAK DESTINED HOPE	USA 73348706						
LONE-OAK DESTINED MAGIC	USA 73348708						
LONE-OAK DESTRY FANTASIA-ET	840003130709221						1
LONE-OAK DESTRY MAGENTA	USA 71673294						
LONE-OAK DESTRY MASEY	USA 72647425						1
LONE-OAK DESTRY RUBY	USA 70775427						
LONE-OAK DOMAIN LILLY	USA 70775424						
LONE-OAK DOMAIN SIERRA	USA 70775426						
LONE-OAK DURHAM SOLACE	USA 137545915						
LONE-OAK E P TIGRESS-RED-ET	USA 71673311						
LONE-OAK EFF P TULIP-ET	USA 71673309						
LONE-OAK EFFECT TAMARA-ET	840003130709234						
LONE-OAK EXPLOD MICHIGAN-TW	USA 70775435						
LONE-OAK EXPLODE FAME	USA 70775434						
LONE-OAK EXPLODE FREEDOM	USA 71673293						1
LONE-OAK EXPLODE TWILIGHT	USA 71673292						
LONE-OAK G W ATWOOD HAZEL	USA 71673300						
LONE-OAK G W ATWOOD HISTORY	840003130709232						
LONE-OAK G W ATWOOD HULA	USA 71673297						1
LONE-OAK G W ATWOOD MAPLE	USA 70775425						
LONE-OAK G W ATWOOD SPARKLE	USA 71673301						1
LONE-OAK GC LIGHTNING	USA 71673298						
LONE-OAK GCHIP SARATOGA-ET	840003130709226						
LONE-OAK GLDWYN RAPUNZEL-ET	USA 73348724						
LONE-OAK GOLD CHIP FERN	USA 70775428						
LONE-OAK GOLD CHIP FRIDAY	USA 71673314						
LONE-OAK GOLD CHIP HARP	USA 72647411						
LONE-OAK GOLD CHIP ROSA	USA 71673305						
LONE-OAK GOLD CHIP SAFFRON	USA 71673313						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK GOLD CHIP SAHARA	USA 71673304						
LONE-OAK GOLD CHIP SAVANNAH	USA 71673303					C	
LONE-OAK GOLD CHIP SOPHIA	USA 71673307						
LONE-OAK GOLD FANTASY-ET	USA 139802917						1
LONE-OAK GOLDCHIP SPARKY-ET	USA 73348725						
LONE-OAK GOLDDUST MORGAN	840003130709216						
LONE-OAK GOLDEN FLORA	USA 73348749						
LONE-OAK GOLDEN HONEY	USA 140144002						1
LONE-OAK GOLDEN LANTERN	USA 73348739						3
LONE-OAK GOLDEN PP HEAT-RED	USA 73348743						
LONE-OAK GOLDEN PP TATUM	USA 73348745						
LONE-OAK GOLDWYN FANATIC-ET	USA 66398573						
LONE-OAK GOLDWYN RALLY-ET	USA 72647414						3
LONE-OAK GOLDWYN SPICE-ET	USA 73348721						1
LONE-OAK GOLDWYN STORM-ET	USA 73348723						
LONE-OAK GOLDWYN SUMMER-ET	840003130709217						1
LONE-OAK HAWKEYE MUSIC-RED	USA 139456965						
LONE-OAK HAWKEYE STARHART	USA 72647426						
LONE-OAK HEFTY FLORA	USA 72647431						
LONE-OAK HEFTY FONT	USA 72647429						
LONE-OAK HEFTY LANA	USA 73348702						
LONE-OAK HEFTY RAZZLE	USA 73348705						
LONE-OAK HEIDI	USA 73348744					C	
LONE-OAK KITE FLYER	USA 73348718						
LONE-OAK LINJET FANTASY-ET	840003130709222						1
LONE-OAK LINJET FLORAL-ET	840003130709223						1
LONE-OAK LINJET HONEYCOMB	USA 72647427						1
LONE-OAK LINJET SHIELA-ET	840003130709220						
LONE-OAK LINJET STARDUST	USA 70775422						
LONE-OAK LINJET SUNNY	USA 139457331						
LONE-OAK LINJET TORNADO-ET	840003130709219						
LONE-OAK LOU P HANNAH	USA 72647430	C					1
LONE-OAK LOU P SUNSHINE	USA 72647428						
LONE-OAK MARMAX HALEY-ET	USA 71673296						1
LONE-OAK MASSEY MARIAH	USA 73348717						
LONE-OAK MASSEY SHAKIRA	USA 73348713						
LONE-OAK MASSEY TANYA	USA 73348711						
LONE-OAK MEGASIRE FERRARI	USA 73348738						
LONE-OAK MEGASIRE FLOWER	840003130709229						
LONE-OAK MEGASIRE FLURRY	USA 73348736						
LONE-OAK MEGASIRE FONT	USA 73348750						
LONE-OAK MEGASIRE FRAZZLE	USA 73348730						
LONE-OAK MEGASIRE HARPER	USA 73348747						1
LONE-OAK MEGASIRE HELGA	840003130709212						
LONE-OAK MEGASIRE MELODY	USA 73348729						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

208

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK MEGASIRE RHONDA	840003130709213						
LONE-OAK MEGASIRE ROSE	USA 73348742						
LONE-OAK MEGASIRE SILK	USA 73348733						
LONE-OAK MEGASIRE SOLSTICE	USA 73348740						
LONE-OAK MEGASIRE SOPHIE	USA 73348734						
LONE-OAK MEGASIRE STAR	840003130709231						
LONE-OAK MEGASIRE STARJET	USA 73348737						
LONE-OAK MEGASIRE SUNSET	USA 73348746						
LONE-OAK MEGASIRE TEXAS	USA 73348731						
LONE-OAK MEGASIRE TWEET	840003130709214						
LONE-OAK MEGASIRE VALENTINE	USA 73348735						
LONE-OAK MERIDIAN RACHEL	USA 72647412						
LONE-OAK SALLY	USA 73348741						
LONE-OAK SAVAGE JES-RED	USA 70775432						2
LONE-OAK SEVEN	USA 73348727					C	
LONE-OAK SHAMROCK DARLA	USA 73348704					C	
LONE-OAK SHAMROCK MAVIS	USA 72647424						
LONE-OAK SHAMROCK MAYBEL	USA 73348703						
LONE-OAK SHAMROCK TIPSIE-ET	840003130709227		C				
LONE-OAK SHAMROCK TOTAL-ET	840003130709230						
LONE-OAK SHAN FLUTE	USA 72647410						1
LONE-OAK SHAN FRANCE	USA 72647409						
LONE-OAK SHOT TWINKLE-ET	USA 140973527					C	
LONE-OAK SHOTTLE 193-ET	USA 69951974					C	
LONE-OAK SHOTTLE 194-ET	USA 69951975						1
LONE-OAK SHOTTLE DARLING-ET	USA 140973545					C	1
LONE-OAK SHOTTLE FANTA-ET	USA 56337109					C	
LONE-OAK SHOTTLE FARAH-ET	840003130709233						
LONE-OAK SHOTTLE FLIPPER-ET	840003130709235						1
LONE-OAK SHOTTLE STARBRIGHT	USA 139821442						
LONE-OAK SIMMS TASHA	USA 70775433						1
LONE-OAK SUPERSTITION LACEY	USA 73348732						
LONE-OAK TALENT SILVER-ET	USA 140695544						1
LONE-OAK TIGER LILLY-ET	840003130709224		C				
LONE-OAK TUBA-ET	840003130709225		C				
LONE-OAK UNO FLAKE	USA 73348719						
LONE-OAK UNO FROZEN	USA 73348715						
LONE-OAK UNO ROBOT	USA 73348720						
LONE-OAK UNO TOOTSIE	USA 73348722						
LONE-OAK UNO TRIXY	USA 73348716		C				
LONE-OAK-ACRES A MACKENZIE	840003127167385						1
LONE-OAK-ACRES ALEXANDRA	USA 66185125						
LONE-OAK-ACRES ARMAN ELYSIA	USA 70832266						1
LONE-OAK-ACRES ARMITAG ADDY	USA 70832199		C				
LONE-OAK-ACRES B REGAN-ET	USA 70832258			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK-ACRES B RIKKI-ET	USA 70832259						
LONE-OAK-ACRES BEACON ESME	USA 70832192					C	
LONE-OAK-ACRES BEACON ETTA	USA 70832198						
LONE-OAK-ACRES BLGA RASHIDA	USA 70832262						
LONE-OAK-ACRES BRONCO REMY	USA 66185155			C			
LONE-OAK-ACRES CAMRN EXTASY	USA 70832216						
LONE-OAK-ACRES CHEVRO RIPLY	USA 70832267						
LONE-OAK-ACRES CL EZMERELDA	USA 70832196						
LONE-OAK-ACRES CLARK JADEN	USA 70832211						
LONE-OAK-ACRES D MADISON-ET	USA 66185140						1
LONE-OAK-ACRES D MAE-RED-ET	USA 70832206						1
LONE-OAK-ACRES D MIRACLE-ET	USA 71586000						2
LONE-OAK-ACRES D MIZ CRI-ET	USA 71452100						1
LONE-OAK-ACRES D MYSTIC-ET	USA 71586003						
LONE-OAK-ACRES DAVINCI RUE	840003127167376						
LONE-OAK-ACRES DAVNCI ROWAN	840003127167368						
LONE-OAK-ACRES DAY PEPSI	USA 70832238	C					
LONE-OAK-ACRES DAY RAIN	USA 70832227						
LONE-OAK-ACRES DESTRY MILA	USA 66185146						
LONE-OAK-ACRES DKR MAMIE-ET	USA 70832215						1
LONE-OAK-ACRES DOLLAR PENNY	USA 70832244						
LONE-OAK-ACRES E SNOWRAE-ET	840003127167387						
LONE-OAK-ACRES EN RESHIA-ET	840003127167388						
LONE-OAK-ACRES ENTAIL MARGO	840003127167390						
LONE-OAK-ACRES EPC RENEE-ET	USA 70832220						
LONE-OAK-ACRES EPIC ELENA	USA 70832249						
LONE-OAK-ACRES EPIC EMILY	USA 70832209		C				
LONE-OAK-ACRES EPIC MASON	USA 70832214						
LONE-OAK-ACRES EPIC RECIPE	USA 70832255						
LONE-OAK-ACRES EPIC RETTA	USA 70832230						
LONE-OAK-ACRES F RILEIGH-ET	840003127167386						
LONE-OAK-ACRES FACBK RAE-ET	USA 71585997						
LONE-OAK-ACRES FB RAQUEL-ET	USA 71585998						
LONE-OAK-ACRES FRANK FIONA	USA 70832190						
LONE-OAK-ACRES FRANK SADIE	USA 70832205						
LONE-OAK-ACRES GARCIA RILEY	USA 70832237						
LONE-OAK-ACRES GILBY TATE	USA 70832210						
LONE-OAK-ACRES GRAFTI JAZZY	USA 70832207			C			
LONE-OAK-ACRES I RAVEN-ET	USA 66185153						
LONE-OAK-ACRES JABIR MAURA	USA 70832272						1
LONE-OAK-ACRES JABIR RIVA	USA 70832271						
LONE-OAK-ACRES JAMES ROMA	USA 70832256						
LONE-OAK-ACRES JSTRM ALLURE	USA 52368950						
LONE-OAK-ACRES KRUNCH AVRIL	840003127167369						
LONE-OAK-ACRES LET EVANKA	USA 70832243						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK-ACRES LEXOR AVERY	USA 70832224		C				
LONE-OAK-ACRES LEXOR MACI	USA 70832219						
LONE-OAK-ACRES LITH RYNN-ET	USA 70832232						
LONE-OAK-ACRES LITTL REGGIE	840003127167380						
LONE-OAK-ACRES LITTL RIDLEY	840003127167381						
LONE-OAK-ACRES LTH RAYNA-ET	USA 70832233						
LONE-OAK-ACRES MACI CRI-ET	USA 71452096						1
LONE-OAK-ACRES MACK ROSALYN	USA 70832263						
LONE-OAK-ACRES MAGNUS SARAH	USA 70832213						
LONE-OAK-ACRES MANITOBA-ET	USA 66185144						
LONE-OAK-ACRES MARI-RED-ET	840003011170213						1
LONE-OAK-ACRES MAY-RED-ETS	USA 71586002						
LONE-OAK-ACRES MEGA MIRANDA	840003127167358						
LONE-OAK-ACRES MIA-RED-ETS	USA 71586001						
LONE-OAK-ACRES O RACHEL-ET	USA 66185149						
LONE-OAK-ACRES P MONTANA-ET	USA 66185143			C			
LONE-OAK-ACRES P RANDI-ET	USA 71586011						
LONE-OAK-ACRES P RASHIDA-ET	USA 71586010						
LONE-OAK-ACRES PETRN RIO-ET	USA 70832222						
LONE-OAK-ACRES PETRON 13-ET	USA 71115142						
LONE-OAK-ACRES PETRON 14-ET	USA 71115143						
LONE-OAK-ACRES PLANET BLAKE	USA 66185082						
LONE-OAK-ACRES PS REESE-ET	USA 66185086						
LONE-OAK-ACRES PUL ROBBIE-ET	840003127167373						
LONE-OAK-ACRES PULS RYAN-ET	840003127167372						
LONE-OAK-ACRES R MAE-RED-ET	USA 66185111						1
LONE-OAK-ACRES RABO EDLYN	840003127167382		C				
LONE-OAK-ACRES RABO IRISA	840003127167377						
LONE-OAK-ACRES RACER RYBA	USA 70832268						
LONE-OAK-ACRES ROBLE CAREY	840003127167363						
LONE-OAK-ACRES ROBLE LACY	840003127167359						
LONE-OAK-ACRES S MARTA-RED	USA 70832245						1
LONE-OAK-ACRES S MIKA-RED	USA 70832269						
LONE-OAK-ACRES S REGINA-ET	USA 70832203						
LONE-OAK-ACRES SALOON ALINA	USA 70832261		C				
LONE-OAK-ACRES SAM ROBYN-ET	USA 70832202						
LONE-OAK-ACRES SAMOA MICKEY	USA 70832204						
LONE-OAK-ACRES SAMOA ROSIE	USA 70832225			C			
LONE-OAK-ACRES SHAN IDINA	USA 70832265						
LONE-OAK-ACRES SHOT RAE-ET	USA 66185084						
LONE-OAK-ACRES SHOT RHEA-ET	USA 66185083						
LONE-OAK-ACRES SMOA RHEA-ET	USA 71585999			C			
LONE-OAK-ACRES SUPLEX RUBY	USA 70832246						
LONE-OAK-ACRES SYM MURIEL	840003127167356			C			
LONE-OAK-ACRES SYMP MISCHA	USA 70832242			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONE-OAK-ACRES TRADER JO-ET	USA 56337140						
LONE-OAK-ACRES TRD RYDER-ET	USA 66185152						
LONE-OAK-ACRES TRDR RORY-ET	USA 70832176						
LONE-OAK-ACRES TRDR ROXY-ET	USA 56337138						
LONE-OAK-ACRES UNO EVIAN	840003127167362						
LONE-OAK-ACRES W ANNALEE-ET	USA 70832231						1
LONE-OAK-ACRES W ARIANNA-ET	USA 70832270						1
LONE-OAK-ACRES WINDBRK EDEN	USA 70832212						
LONE-OAK-ACRES WND AUDRY-ET	USA 70832239						1
LONELY-MILE DEMPS AKARI-ET	840003012998484						
LONELY-MILE DUKE CHEYANNE	USA 66190825						
LONELY-MILE SARABETH	USA 61664331						
LONEWOLF SUPERSONIC DYNASTY	840003009374544						
LONG-BROOK ADVENT DORA	USA 139742363						
LONG-BROOK CL CALLIE-RED-ET	840003124046140						
LONG-BROOK GW ATW DAPPER-ET	840003124046161						
LONG-BROOK NICOLE-RED-ET	USA 73557236						
LONG-BROOK RL SWEETY PI-RED	USA 141292968						
LONG-BROOK SEC DAISY-RED-ET	USA 141152448		C				3
LONG-BROOK SEC DANDY-RED-ET	USA 141356851						
LONG-HAVEN BROKAW LANEY-ET	USA 143106957						
LONG-HAVEN BRXTN ROLO	USA 141911517						
LONG-HAVEN GALAXY CASSIE-ET	USA 142585414						
LONG-HAVEN GOLD ROULETTE-ET	USA 140931077						1
LONG-HAVEN GOLDWYN TAYLOR	USA 137389179						1
LONG-HAVEN MCCUT CHARLENE	USA 142734920						
LONG-HAVEN MILN RASHEL-ET	USA 140943487						
LONG-HAVEN OAK COCONUT-ET	USA 142734948						
LONG-HAVEN OAK COOKIE-ET	USA 142734939						
LONG-HAVEN RUDOLPH DEE-ET	USA 18016327						
LONG-HAVEN SANCHEZ RHUBARB	USA 140648542						
LONG-HAVEN SHOTTLE RHYAN-ET	USA 139894510	C				C	
LONG-HAVEN SNCHZ RAYNEE-ET	USA 140943478	C					
LONG-LANGS MARCIS MISS-ET	USA 61732770	C					
LONG-LANGS MODEST LADY-ET	USA 137154812	C					
LONG-STAY CHAP NUTMEG	USA 72877113						
LONG-STAY DAY SPRITE	USA 72062742						
LONG-STAY DONATELLO NEWYEAR	USA 72877143						
LONG-STAY DOTSON NACHO	USA 68849180						
LONG-STAY DURABLE MONEY	USA 69860777						3
LONG-STAY EPIC KRISSY	USA 72877127						
LONG-STAY EPIC NUCKLES	USA 72877145		C				
LONG-STAY ERSKINE KRISPIE	USA 72062741						
LONG-STAY KOOL MICHIGA	USA 72062705						
LONG-STAY MIXER MYST	USA 72877135						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

212

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LONG-STAY MOGUL DIXIELEE	USA 72877146						
LONG-STAY MOGUL MAC	USA 72877137			C			
LONG-STAY SHAN MOONSTAR	USA 72877138					C	
LONG-STAY STERLING MELESTA	USA 72877123						
LONGEVITY APPLE CIDER-ET	USA 142510429						
LONGEVITY APPLE PIE-RED-ET	USA 142510410		C				4
LONGEVITY CINNAMON APPLE-ET	840003010075113						3
LONGEVITY MELANIE-RED-ET	USA 142857403						3
LONGFELLOW BOXER BIANCA-ET	USA 69351652						
LONGFELLOW DOMAIN RAZI-ET	USA 69801202						
LONGFELLOW EXPLODE RAZZI	USA 70507493						
LONGFELLOW SHAMROCK 16661	USA 71371936						
LONGFELLOW TOYSTORY LOIS	USA 141038366						
LONGHOPE HOHO LAWBK TASHA	USA 143114019						
LONGHOPE WIN POWER CHOICE-P	USA 139706079						
LOOKOUT DUNDEE ADEEN-ET	CAN 89777779						
LOOKOUT DUNDEE VINTAGE	CAN 104936148						
LOOKOUT GOLDWYN LAURIE-ET	CAN 104324602	C	C				
LOOKOUT PESCE A BRAVA-ET	CAN 105973429						3
LOOKOUT PESCE A S HILLY-ET	CAN 107931121						
LOOKOUT PESCE DUDE DANIKA	CAN 108033899						
LOOKOUT PESCE EPIC HUE-ET	CAN 107766242						
LOOKOUT PESCE GOLD CHEETAH-ET	CAN 107027275						1
LOOKOUT PESCE GOLDWYN SAHAR-ET	CAN 106030975						1
LOOKOUT PESCE M HONEY-ET	CAN 107931119						
LOOKOUT PESCE NELLY P-ET	CAN 108502654						
LOOKOUT PESCE PONDE KARLA-ET	CAN 107931073						
LOOKOUT PESCE PONDE KREED-ET	CAN 107931108						
LOOKOUT PESCE SIGNATURE-RED-ET	CAN 108033912						3
LOOKOUT PONDE KOOL-ET	CAN 107931089						
LOOKOUT-PESCE CHAP LEYA-ET	840003010408643						
LOOKOUT-PESCE LARKSPUR-ET	840003010408644						
LOOKOUT-PESCE LEX PASHA-ET	840003010408642						
LOOKOUT-PESCE LEX PERLA-ET	840003010408641						
LOOKOUT-PESCE LIVIA-ET	840003010408615						
LOOKOUT-PESCE LYRIC-ET	840003010408614						
LOOKOUT-PESCE LYZA-ET	840003010408613						
LOOKOUT-PESCE NOLA-ET	840003010408611						
LOOKOUT-PESCE PANAMA-ET	840003010408623						
LOOKOUT-PESCE PASSION-ET	840003010408626						
LOOKOUT-PESCE SANGRIA-ET	840003010408645						
LOOKOUT-PESCE SEPHORA-ET	840003010408634						
LOOKOUT-PESCE SEVILLA-ET	840003010408637						
LOOKOUT-PESCE SILK-ET	840003010408620						
LOOKOUT-PESCE SKYE-ET	840003010408618						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOOKOUT-PESCE SL SERENE-ET	840003010408625						
LOOKOUT-PESCES BKM ERIKA-ET	USA 70699974						3
LOOKOUTP DEST SISI 4548-RED	USA 72302567						
LOOSLEA AEROSTR LORRI-ET	USA 14734188						
LOR-MIK ABLAZE-RED-ET	840003011589597						
LOR-MIK ALCHEMY LIBBY-RED	USA 71364196						1
LOR-MIK CARSON LICKETY-ET	USA 69625384						
LOR-MIK CARSON LILLY-RED-ET	USA 69625392						
LOR-MIK CRSN LADYBUG-RED-ET	USA 69625390						
LOR-MIK DANCER BLAZE-RED-ET	840003011589485						
LOR-MIK DANCER LUCY-RED	USA 71364203						
LOR-MIK REALITY LEAVES-ET	USA 68787302						
LOR-MIK SAVE LINDEN-RED-ET	USA 74472736						
LOR-MIK SHOWDOWN LIPSTIK-RED	USA 71364214						
LOR-MIK SSI CARSON 5368-ET	USA 68997625						
LOR-MIK SSI LC 5592-RED-ET	USA 70119293						
LORAWAE OUTSIDE LORNA	USA 61864169						
LORAWAE OUTSIDE MOONLITE	USA 61864162		C				
LORDALE INTEGRITY MALA	USA 17289325						
LORDALE STORM MARIKA	USA 131731231						1
LORDALE WINCHESTER SPECIAL	USA 128515297						
LORIKEN MCCUTCHEN POMADE	USA 72763102						
LORITA 11009 MANARO 8082	840003123916863						
LORITA ABUNDANCE 11469-TW	USA 73129523						
LORITA ABUNDANCE 11470-TW	USA 73129524						
LORITA ACTION ROBIN	USA 72564631						
LORITA AIRLIFT BEYONCE	USA 73129537						
LORITA AIRLIFT BOMBAY	840003124671870						
LORITA AIRLIFT FAYLENE	USA 73129479						
LORITA AIRLIFT MARCY	840003124671873						
LORITA AIRNET ROBIN	USA 72564630						
LORITA ALEXANDER BOMBAY	USA 72226272						1
LORITA ALEXANDER ERIN	USA 72226235						1
LORITA ALEXANDER FAYLENE	USA 72226220						3
LORITA ALEXANDER MAEBELL	USA 72564686						1
LORITA ALEXANDER MOONS	USA 73129502						1
LORITA ALEXANDER MS ROBIN	USA 70708436						
LORITA ALEXANDER PEARL	USA 73129545						1
LORITA ALEXANDER TARA	USA 72564687						
LORITA ALEXANDER YVETTE	USA 72564632						1
LORITA ANAHIM FANTASIA-RED	840003133580802						
LORITA ANDIRON SANDY-RED	840003133580815						
LORITA ARMANI BAYWATCH	840003131565357						2
LORITA ARMANI BECKA	840003131565358						
LORITA ARMANI BICARDI	840003128057810						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA ARMANI BRIANNA	840003128057824						2
LORITA ARMANI BROOKE	840003128057805						
LORITA ARMANI FRISKY	840003128057758						
LORITA ARMANI GEM	840003131565412						
LORITA ARMANI HOPE	840003128057772						
LORITA ARMANI MARCY	840003128057783						
LORITA ARMANI TERRI	840003128057818					C	
LORITA ATWD BRIANNA	USA 72226254						
LORITA ATWOD BRITNEY	USA 70708365						
LORITA ATWOOD ALICE	USA 72226243						
LORITA ATWOOD AMY LEA	USA 71686870						
LORITA ATWOOD ANNA STAR	USA 69673742						
LORITA ATWOOD APRIL	USA 72226228						
LORITA ATWOOD ASTRO	USA 72564650						
LORITA ATWOOD BAILEY	USA 71253543						
LORITA ATWOOD BALLET	USA 72226234						
LORITA ATWOOD BARB	USA 71686861						
LORITA ATWOOD BAT ROSIE	USA 71686820						
LORITA ATWOOD BATS	USA 71253542						
LORITA ATWOOD BAYWATCH	USA 70229962						1
LORITA ATWOOD BESTIE	USA 70708423	C					
LORITA ATWOOD BINGO	USA 71686869						1
LORITA ATWOOD BRIA	USA 69673762						
LORITA ATWOOD BRIANNA	USA 71253516						
LORITA ATWOOD BRIDGET	USA 70708437						
LORITA ATWOOD BRITNEY 11186	USA 71686880						3
LORITA ATWOOD BRITNEY-ET	USA 69673749						
LORITA ATWOOD BROOKE	USA 70708416						
LORITA ATWOOD COCOA	USA 72564649		C				
LORITA ATWOOD CRICKET	USA 72226233						
LORITA ATWOOD DEANNA	USA 71253579						
LORITA ATWOOD DEIRDRE	USA 71686815						
LORITA ATWOOD DIANNE	USA 72226252						
LORITA ATWOOD DINAH	USA 72226291						
LORITA ATWOOD DOTTY	USA 72564619						
LORITA ATWOOD DUCHESS	USA 71686845						
LORITA ATWOOD EMPRESS	USA 71253506	C					
LORITA ATWOOD FAYLENE	840003126252568						
LORITA ATWOOD FEISTY-ET	USA 72226298						
LORITA ATWOOD FIRE	USA 71253517						
LORITA ATWOOD FIRE FLY-ET	USA 72226294						
LORITA ATWOOD FRISKY-ET	USA 72226302						
LORITA ATWOOD GEM	USA 71253592						
LORITA ATWOOD HI-FI	USA 71686834						
LORITA ATWOOD HI-FIER	USA 72564627						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

215

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA ATWOOD HOPEFUL	USA 71253560						
LORITA ATWOOD INEZ	USA 71686853						
LORITA ATWOOD INGRID	USA 72226257						
LORITA ATWOOD LEA	USA 70708388	C					
LORITA ATWOOD LEAF-ET	USA 73129459						
LORITA ATWOOD LOTTERY-ET	USA 72226207						
LORITA ATWOOD MACKENZIE	USA 72226219						
LORITA ATWOOD MARSHA	USA 71686888						
LORITA ATWOOD MARTHA ELLEN	USA 72226282						1
LORITA ATWOOD MARTHA MAE	USA 71253586	C					
LORITA ATWOOD MILLY	USA 71686882						
LORITA ATWOOD MISS DEE	840003126252566						
LORITA ATWOOD MISS MANDY	USA 71686799						
LORITA ATWOOD MS APRIL-ET	USA 73129504						
LORITA ATWOOD MS BESTIE	USA 71686885						
LORITA ATWOOD MS BRIDGET	USA 72226247						
LORITA ATWOOD MS BRITNEY	840003126252598						
LORITA ATWOOD MS DEE	USA 71686886	C					
LORITA ATWOOD MS ROBIN	840003124671921						
LORITA ATWOOD MS SELA	USA 71686875						
LORITA ATWOOD MS TARA-TW	USA 71686872					C	
LORITA ATWOOD MS TARALEE	USA 71686806						
LORITA ATWOOD MS TERRI-TW	USA 71686873					C	
LORITA ATWOOD OINTMENT	USA 70708435						
LORITA ATWOOD PANIC	USA 71686864						
LORITA ATWOOD PAULINE	USA 71686795	C					
LORITA ATWOOD PRALINE	USA 71686828						
LORITA ATWOOD RANEDA	840003124671938						
LORITA ATWOOD RIVIERA-TW	USA 73129460						
LORITA ATWOOD ROBIN	USA 72226222						
LORITA ATWOOD SANDY	USA 71686819						1
LORITA ATWOOD SELA	USA 71686836						
LORITA ATWOOD STACEY	USA 71686868						
LORITA ATWOOD SUSANN	USA 69673750						
LORITA ATWOOD TARALEE	USA 70708394						
LORITA ATWOOD TARALEE 2	USA 71253574						
LORITA ATWOOD TIFF	USA 71686860						1
LORITA ATWOOD TILLY	USA 71686848						1
LORITA ATWOOD TINKERBELL	USA 72226221						
LORITA ATWOOD TRISTEN	840003126252572						
LORITA ATWOOD YVETTE	USA 72226251						
LORITA BANKROLL BRIANNA	840003133580812						1
LORITA BARRY BRITNEY	840003126252547					C	
LORITA BARRY HOPE	840003126252571						
LORITA BARRY TIFFANY	840003128057817						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

216

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA BEEMER BEYONCE	840003133580822			C			
LORITA BEEMER BRIDGET	840003128057760	C					
LORITA BEEMER BRITNEY	840003131565422						
LORITA BEEMER BROOKE	840003133580826						
LORITA BEEMER ERIN	840003133580805						
LORITA BEEMER FAYLENE	840003133580788						
LORITA BEEMER HOPE	840003131565359						
LORITA BEEMER LOTTERY	840003133580814						
LORITA BEEMER MILLY	840003133580778						
LORITA BEEMER MS TIFFANY	840003133580838						
LORITA BEEMER TIFFANY	840003133580785						
LORITA BEEMERS BRIDGET	840003133580825						
LORITA BEMER BEYONCE	840003133580844						
LORITA BEYONCE ATWOOD	USA 71253501					C	
LORITA BILLINGS HEATHER	840003133580774						
LORITA BOXER BICARDI-ET	USA 69673775						
LORITA BOXER BRITNEY-ET	USA 69673771						
LORITA BOXER MACKENZIE-ET	USA 69673759						
LORITA BOXER MARGUERITE-ET	USA 69673761	C					
LORITA BOXER MARTHA MAE-ET	USA 69673756						
LORITA BOXER RENA	USA 70230002						1
LORITA BOXER TAFFY	USA 71253504						
LORITA BRADNICK 5590 ELLEN	USA 72564710						
LORITA BRADNICK BRIE-ET	USA 71253545						
LORITA BRADNICK HOPE	USA 71253591						
LORITA BRAXTON 5590 ELLEN	USA 71686823						
LORITA BRAXTON AMY LEA	USA 71686858						1
LORITA BRAXTON ASTRO	USA 71686809						
LORITA BRAXTON BECKY	USA 71253561						
LORITA BRAXTON BESS	USA 71253519						
LORITA BRAXTON BETHANY	USA 70708401						
LORITA BRAXTON BEYONCE	USA 72226236						
LORITA BRAXTON BRIANNA	USA 71686824						
LORITA BRAXTON CARLOTTA	USA 71253566						
LORITA BRAXTON DANIELLE	USA 71253539						
LORITA BRAXTON DEBIE	USA 71253598						
LORITA BRAXTON DOLLY	USA 71253513						
LORITA BRAXTON FAYLENE	USA 71253556						3
LORITA BRAXTON LEA	USA 71686862						
LORITA BRAXTON LOUISE	USA 71686843						
LORITA BRAXTON MARCIA	USA 72226208						
LORITA BRAXTON MARCY	USA 72226295						
LORITA BRAXTON MIS SAPPHIRE	USA 72226246						
LORITA BRAXTON MS SAPPHIRE	USA 71686825						
LORITA BRAXTON MS YVETTE	USA 72564628	C					

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

217

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA BRAXTON PASSION	USA 71686798	C					
LORITA BRAXTON PRALIN	USA 72564665						
LORITA BRAXTON ROBINN	USA 72564675						
LORITA BRAXTON SUNRISE	USA 71253564						
LORITA BRAXTON TILLIE	USA 72226276						
LORITA BRAXTON TRISTEN	USA 71686863						
LORITA BROCADE 3674	USA 72564590			C			
LORITA BROKAW BALLET	USA 73129510						
LORITA BROKAW CAMI	840003131565421						
LORITA BROKAW MARGUERITE	840003126252578	C					
LORITA BROKAW PRALINE	840003128057821						
LORITA BURST 11554-RED	840003124671922						1
LORITA BURST BAYWATCH	840003124671911		C				1
LORITA BURST SANDY-RED	USA 72564711						1
LORITA BURST YVETTE	840003124671957	C	C				2
LORITA C GOLD CHIP DUCHESS	840003126252580						
LORITA CAMERON MARCY	USA 72226267						
LORITA CAPTIAL GAIN FIRE	840003133580834						
LORITA CAPTIAL GAIN STACEY	840003133580806						
LORITA CHAMBRIC ANISTASIA	USA 71686842						
LORITA CHAMBRIC MILLY	USA 71686851						
LORITA CHAMBRIC ROBIN	USA 71686839						
LORITA CHARLIE ERIN	USA 70708439						
LORITA CHELIOS BAYLAKE-TW	USA 73129529						
LORITA CHELIOS BELL	840003126252543						
LORITA CHELIOS BROOKE-TW	USA 73129528						
LORITA CHELIOS PAULINE	USA 72564671	C					
LORITA COACH BAH BAYWATCH	USA 71253558						
LORITA COACH BAY	USA 71686805						
LORITA COLT P DIANNE-RED	USA 71686830						1
LORITA COLT P FANTASIA-RED	USA 72226218						
LORITA COREY BAMBI	840003131565378						
LORITA COREY DUCHESS	840003131565368						
LORITA COREY ERIN	840003133580835						
LORITA COREY PAULINE	840003131565375	C					
LORITA COREY PRALINE	840003133580775						
LORITA COREY TARA	840003131565395						
LORITA CORVETTE ABILENE	840003131565428						
LORITA CORVETTE ASHLEY	840003124671933						
LORITA CORVETTE ASTRO	840003128057733						
LORITA CORVETTE BATS	840003128057748						
LORITA CORVETTE BRITNEY	840003124671946						
LORITA CORVETTE COCOA	840003126252517						
LORITA CORVETTE COLLEEN	840003131565439			C			
LORITA CORVETTE DEE	840003128057829						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

218

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA CORVETTE DINAH	840003128057812						
LORITA CORVETTE DOTTY	840003128057753						
LORITA CORVETTE ELLA-ET	840003126252523						
LORITA CORVETTE ELLEN-ET	840003126252522						
LORITA CORVETTE ELLIEMAY-ET	840003126252524						
LORITA CORVETTE ERIN	840003128057809						
LORITA CORVETTE FEISTY	840003128057745						
LORITA CORVETTE FIRE	840003128057784						
LORITA CORVETTE FIRE FLY	840003128057732						
LORITA CORVETTE HI-FIER	840003128057755						
LORITA CORVETTE HOLLY-ET	840003126252594						
LORITA CORVETTE LEA	840003126252542	C					
LORITA CORVETTE MOONS	840003126252603						
LORITA CORVETTE MOONSHINE	840003133580803						1
LORITA CORVETTE MS DEE	840003131565410						
LORITA CORVETTE MS HOLLY	840003131565427						
LORITA CORVETTE MS TARALEE	840003128057739						
LORITA CORVETTE MS YVETTE	840003128057740	C					
LORITA CORVETTE PANIC	840003131565399						
LORITA CORVETTE PAULINE	840003131565411						
LORITA CORVETTE ROBINN	840003131565414						
LORITA CORVETTE TARA	840003128057827						
LORITA CORVETTE TIFFANY	840003131565450						
LORITA CORVETTE YVETTE	840003128057736						1
LORITA DALEN AMY LEA	USA 73129514						
LORITA DEBIE	USA 72564672						
LORITA DECEIVER BAILEY	840003133580790						
LORITA DECEIVER DEANNA	840003133580767						
LORITA DECEIVER ELLEN	840003133580813						
LORITA DECEIVER ROBIN	840003133580791						
LORITA DECEIVER TRICK	840003133580829						
LORITA DEFENDER BRIE	840003133580827						
LORITA DEMAN ASPIRE-ET	840003133580820						
LORITA DEMAN BAYWATCH	840003128057761						
LORITA DEMAN DINAH	840003128057744						
LORITA DEMAN LADY-ET	840003126252609						
LORITA DEMPSEY COCOA	USA 71686794						
LORITA DEMPSEY RIVIERA	USA 71686841						
LORITA DEMPSEY SHORE	USA 72226241						1
LORITA DESTRY SANDY	840003124671967						1
LORITA DIESEL HEATHER	USA 72564677						
LORITA DOMAIN BEYONCE-ET	USA 69673776						
LORITA DOMAIN BOMBAY-ET	USA 69673779						
LORITA DOMAIN DOTTY	USA 70708429						
LORITA DOORMAN CRICKET	840003133580839					C	

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

219

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA DURHAM DUCHESS	840003124671935						
LORITA DURHAM TARA	USA 73129482					C	
LORITA DURHAM TARALEE-ET	USA 65611975						
LORITA EXACT BRIANNA	840003133580755					C	
LORITA EXPLOSIVE 11193	USA 71686887						
LORITA EXPLOSIVE SUNRISE	USA 71686891						
LORITA FANCY GOLDWYN	USA 137333570						
LORITA FEDERAL YVETTE-TW	USA 71686796						
LORITA FEDERAL YVONNE-TW	USA 71686797						
LORITA FEVER BAHAM BAYWATCH	USA 70708402						
LORITA FEVER MAEBELL	USA 72226229						
LORITA FEVER SHORE	USA 70708417						1
LORITA G C TIFFANY	USA 73129491						
LORITA G CHIP FLAME-TW	USA 73129462						
LORITA G CHIP FLICKER-TW	USA 73129463						
LORITA G CHIP MANDY	USA 72564714						
LORITA G CHIP PRALINE	USA 73129465						
LORITA G W ATWOOD BETTY	USA 71686832						
LORITA G W ATWOOD DEANNA	840003128057819						
LORITA G W ATWOOD TARA	USA 71686814						
LORITA GC BAYWATCH	USA 73129530						
LORITA GC BETTY	USA 72564692						
LORITA GC BEYONCE	840003128057816						
LORITA GC HOPE	840003124671930						
LORITA GC MAEBELL	USA 72564696						
LORITA GC SAPPHIRE-TW	USA 73129533						
LORITA GCHIP 5590 ELLEN	840003124671941						
LORITA GCHIP AMY LEA	840003126252549						
LORITA GCHIP BAYWATCH	840003124671878	C					
LORITA GCHIP BESTIE	840003126252588						
LORITA GCHIP BRIANNA	840003126252564						
LORITA GCHIP HOPE	USA 72226289						
LORITA GCHIP MARSHA	840003126252595						
LORITA GCHIP MILLY	840003126252602						
LORITA GCHIP PRALINE	840003126252593						
LORITA GCHIP SAPPHIRE-TW	USA 73129534						
LORITA GCHIP SAPPHIRE	840003126252534						
LORITA GCHIP SELA	840003126252537						
LORITA GCHIP YVETTE	840003126252607						
LORITA GLD CHIP BRIE	USA 73129543						
LORITA GLD CHIP TIFFANY	USA 73129540						
LORITA GLDCHIP TARA	840003124671964						
LORITA GLDCHIP YVETTE	840003124671962						
LORITA GOLD CHIP AZTEC	USA 71686890						
LORITA GOLD CHIP BAY	USA 72564689						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

220

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA GOLD CHIP BAYLAKE	USA 72564633						
LORITA GOLD CHIP BEV	USA 73129480						
LORITA GOLD CHIP BICARDI	USA 72564657						
LORITA GOLD CHIP BINGO	USA 73129469						
LORITA GOLD CHIP BLAIR	USA 72564621						
LORITA GOLD CHIP BRIDGET	USA 73129476						
LORITA GOLD CHIP BRIDGET	USA 73129517						
LORITA GOLD CHIP BRIE	USA 72564700						
LORITA GOLD CHIP BRITNEY	USA 72564676						
LORITA GOLD CHIP BROOKE	USA 73129486						
LORITA GOLD CHIP CAMI	USA 72564669						3
LORITA GOLD CHIP DIANNE	USA 72564685						
LORITA GOLD CHIP DOLLY	840003124671902						
LORITA GOLD CHIP DUCHESS	USA 72564663						
LORITA GOLD CHIP ELLEN	USA 72226245						
LORITA GOLD CHIP EMPRESS	840003124671903						
LORITA GOLD CHIP ERIN	USA 73129483						
LORITA GOLD CHIP FANTASIA	840003128057825						
LORITA GOLD CHIP FERN EMMY	USA 71686835						
LORITA GOLD CHIP FLAME	USA 73129471						
LORITA GOLD CHIP FLICKA	USA 73129509						
LORITA GOLD CHIP FOXY-ET	USA 72226296						
LORITA GOLD CHIP HAPPY	840003126252616						
LORITA GOLD CHIP HEATHER	840003124671906						
LORITA GOLD CHIP HENRIETTA	USA 72564715						
LORITA GOLD CHIP HOPE	840003124671918						
LORITA GOLD CHIP INEZ	840003126252574						
LORITA GOLD CHIP LEA	USA 71686831						
LORITA GOLD CHIP LOTTERY	USA 73129503						
LORITA GOLD CHIP MAEBELL	840003128057774						
LORITA GOLD CHIP MARCY	USA 71253538						
LORITA GOLD CHIP MARTHA	840003126252545						
LORITA GOLD CHIP MILLY	840003126252584						
LORITA GOLD CHIP MINI-TW	840003124671871						
LORITA GOLD CHIP MINNIE-TW	840003124671872						
LORITA GOLD CHIP MS BROOKE	USA 73129507						
LORITA GOLD CHIP MS PRALINE	840003126252531						
LORITA GOLD CHIP MS ROBIN	840003126252590						
LORITA GOLD CHIP MS TARA	840003126252575						
LORITA GOLD CHIP PRALINE	USA 73129508						
LORITA GOLD CHIP REECE	USA 71253533						
LORITA GOLD CHIP ROBIN	USA 73129467						
LORITA GOLD CHIP ROSIE	840003124671950						
LORITA GOLD CHIP SAPPHIRE	840003124671945						
LORITA GOLD CHIP STACEY	840003126252560						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

221

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA GOLD CHIP SUNRISE	USA 72564618						
LORITA GOLD CHIP TARA	USA 73129505						
LORITA GOLD CHIP TIFFANY	USA 72564698						
LORITA GOLD CHIP TWINKLE	840003124671886						
LORITA GOLDCHIP ERIN	USA 73129516						
LORITA GOLDCHIP SUNRISE	840003124671889						
LORITA GOLDDUST FAYLENA	840003126252530						3
LORITA GUTHRIE MARYJANE-ET	USA 71253595					C	
LORITA GUTHRIE MATTY-ET	USA 71253590					C	
LORITA GUTHRIE MEGAN-ET	USA 71253571					C	
LORITA GUTHRIE MILEY-ET	USA 71253597					C	
LORITA GUTHRIE MONIQUE-ET	USA 71253546						
LORITA GUTHRIE S BAYLAKE	USA 72564651						
LORITA GW ATWOOD BAILEY	USA 72564626						
LORITA GW ATWOOD BETTY	USA 72564668						
LORITA GW ATWOOD BRIANNA-ET	USA 71686844						
LORITA GW ATWOOD BROOKE	USA 72226216						
LORITA GW ATWOOD DEE	USA 72226206						
LORITA GW ATWOOD MS BRIANNA	USA 71686893						1
LORITA GW ATWOOD PRALINE	USA 72226217						
LORITA GW ATWOOD TARA	USA 72226283						
LORITA HALOGEN BELL	840003133580782						
LORITA HEIR SHORE	840003126252570						1
LORITA HIGH OCTANE BALLET	840003133580795						
LORITA IMPRESSION BAYWATCH	840003128057776						
LORITA IMPRESSION DINAH	840003124671891						
LORITA IMPRESSION TARA	840003128057769						
LORITA IOTA ASTRO	USA 70229997						
LORITA JAVA ROSIE	USA 71686822						
LORITA JAVA SAPPHIRE	USA 71686817						
LORITA JORDAN PRALIN	USA 71686849						
LORITA JOVAN ABBY	USA 73129472						
LORITA JOVAN AGGY	USA 72564695					C	
LORITA KBOY BETTY CROCKER	840003133580762						
LORITA KBOY BEYONCE	840003133580833						
LORITA KINGBOY 11860	840003131565413						
LORITA KINGBOY BALLET	840003133580787						
LORITA KINGBOY BEDAZZLED	840003131565365						
LORITA KINGBOY BESS	840003133580830						
LORITA KINGBOY BRIANNA	840003133580759						
LORITA KINGBOY BRIDGET	840003133580783						
LORITA KINGBOY BROOKE	840003133580798						
LORITA KINGBOY DOLLY	840003133580754						
LORITA KINGBOY DUCHESS	840003131565393						
LORITA KINGBOY EMPRESS	840003133580836			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

222

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA KINGBOY FLAME	840003133580761						
LORITA KINGBOY FLICKA	840003133580828						
LORITA KINGBOY HENRIETTA	840003133580819						
LORITA KINGBOY LEAH	840003131565382						
LORITA KINGBOY LOLA	840003133580766						
LORITA KINGBOY MANDI	840003133580768						
LORITA KINGBOY MANDY	840003131565383						
LORITA KINGBOY MARCY	840003133580840						
LORITA KINGBOY PRALIN	840003131565371						
LORITA KINGBOY SAPPHIRE	840003133580845						
LORITA KINGBOY TARALEE	840003131565442						
LORITA LAURIN LAURA-ET	USA 65612019						
LORITA LAUTHORITY MARTHA-TW	USA 71253554					C	1
LORITA LAUTHORITY ROBIN	USA 71253502						
LORITA LEO HAPPY	USA 72226204						
LORITA LOCHINVAR BESS	840003124671924						
LORITA LOCHINVAR ERIN	840003128057737						
LORITA LOCHINVAR PARIS	840003128057731						
LORITA LOTTOMAX FERN EMMY	840003133580764						
LORITA MAC TIFFANY	USA 72564709						
LORITA MALICIOUS BRINA	840003126252606	C					
LORITA MALICIOUS HEATHER	840003126252608						
LORITA MANARO PANIC	USA 72564683						
LORITA MANARO YVETTE	840003124671881						
LORITA MARDI GRAS ALI	840003133580781						
LORITA MARDI GRAS ASPIRE	840003126252615						
LORITA MARDI GRAS LEAH	840003133580773						
LORITA MARDI GRAS MARY JANE	840003131565360					C	
LORITA MARDI GRAS YVONNE	840003131565366						
LORITA MARDIGRAS CARLY-TW	840003131565397						
LORITA MARDIGRAS COREY-TW	840003131565398						
LORITA MAYFIELD AMY LEA	840003126252518			C			1
LORITA MAYFIELD ASTRO	840003124671954						
LORITA MAYFIELD BAILEY	840003124671875			C			
LORITA MAYFIELD BARB	840003126252583			C			
LORITA MAYFIELD BAY	840003124671947			C			
LORITA MAYFIELD BESS	USA 73129521						
LORITA MAYFIELD BETTY	840003126252539			C			
LORITA MAYFIELD BEYONCE	USA 73129520			C			
LORITA MAYFIELD BOMBAY	840003128057765			C			1
LORITA MAYFIELD BRIANNA	840003124671949						
LORITA MAYFIELD BRIDGET	840003128057814						
LORITA MAYFIELD BRITNEY	840003126252553						
LORITA MAYFIELD COLLEEN	USA 72564690			C			
LORITA MAYFIELD DEANNA	840003124671892			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

223

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA MAYFIELD DEIRDRE	840003124671963			C			
LORITA MAYFIELD DINAH	840003124671888			C			
LORITA MAYFIELD EMPRESS	USA 73129519			C			
LORITA MAYFIELD ERIN	840003126252610						
LORITA MAYFIELD FERN EMMY	840003126252521			C			
LORITA MAYFIELD HI-FI	840003126252546			C			
LORITA MAYFIELD LUCY	USA 73129492						
LORITA MAYFIELD MANDY	USA 72564697						
LORITA MAYFIELD MARCY	840003131565364						
LORITA MAYFIELD MARTHA MAE	840003124671897						
LORITA MAYFIELD MS BEYONCE	840003131565384			C		C	
LORITA MAYFIELD MS BRITNEY	USA 73129526						
LORITA MAYFIELD MS DINAH	840003128057775						
LORITA MAYFIELD MS PASSION	840003131565420		C				
LORITA MAYFIELD MS SELA	840003126252555			C			
LORITA MAYFIELD PANIC	840003126252557			C			
LORITA MAYFIELD PASSION	840003124671951	C		C			
LORITA MAYFIELD PAULINE	840003124671940	C					
LORITA MAYFIELD ROSIE	840003131565407						
LORITA MAYFIELD SHORE	840003128057795						1
LORITA MAYFIELD TIFF	840003126252579						1
LORITA MAYFIELD ZIPPER	840003124671883			C			
LORITA MCCUT MARTHA ELLEN	840003128057778						
LORITA MCCUTCHEN 11670	840003126252587						
LORITA MCCUTCHEN 3891	840003124680091						
LORITA MCCUTCHEN 3912	840003128057918						
LORITA MCCUTCHEN 5590 ELLEN	840003128057826						
LORITA MCCUTCHEN ABRIELLE	840003131565432						
LORITA MCCUTCHEN BALLI	840003124671934						
LORITA MCCUTCHEN BESS	840003131565409						
LORITA MCCUTCHEN BETTY	840003131565426						
LORITA MCCUTCHEN BEYONCE	840003131565356						
LORITA MCCUTCHEN BRIANNA	840003128057790						
LORITA MCCUTCHEN BRIDGET	840003126252565					C	
LORITA MCCUTCHEN BRITNEY	840003131565416						
LORITA MCCUTCHEN CRICKET	840003128057823						
LORITA MCCUTCHEN DANIELLE	840003124671900						
LORITA MCCUTCHEN DEE	840003128057807						
LORITA MCCUTCHEN DIANNE	840003131565403						
LORITA MCCUTCHEN HALFPINT	840003126252562						
LORITA MCCUTCHEN HEATHER	840003131565381						
LORITA MCCUTCHEN HOPEFUL	840003124671919						
LORITA MCCUTCHEN LEA	840003126252556						
LORITA MCCUTCHEN MAEBELL	840003131565415	C					
LORITA MCCUTCHEN MARCY	840003131565405						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

224

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA MCCUTCHEN MILLY	840003128057763						
LORITA MCCUTCHEN PEPPER	840003124671912						
LORITA MCCUTCHEN PRALINE	840003133580760						
LORITA MCCUTCHEN ROBIN	840003133580779						
LORITA MCCUTCHEN TARA	840003131565372						
LORITA MCCUTCHEN TILLIE GEM	840003128057764						
LORITA MERIDIAN BRIANNA	USA 73129477						
LORITA MERIDIAN CARLOTTA	USA 72564645						
LORITA MERIDIAN ERIN	USA 73129511						
LORITA MERIDIAN FERN	USA 73129500						
LORITA MERIDIAN TARALEE-TW	USA 72564701						
LORITA MERIDIAN TIFFANY-TW	USA 72564702						
LORITA MICK BRIANNA	840003124671966						
LORITA MITCH BAMBI	USA 72226244						
LORITA MITCH BICARDI	USA 71686883						
LORITA MITCH MRS BRITNEY	USA 71686878						
LORITA MOGUL MARCY	USA 73129538						
LORITA MOGUL REECE	840003124671869						
LORITA MONTEREY AZTEC	840003133580777						
LORITA MONTEREY MARGUERITE	840003133580765	C					
LORITA PREDESTINE ALICE	840003128057788						
LORITA PREDESTINE BRIDGET	840003124671877						3
LORITA RAYMOND BAYWATCH	USA 71253536	C				C	
LORITA REDBURST BECKA	840003124671920						1
LORITA ROXY BLAINE-ET	USA 70229963						
LORITA ROXY BLAIR-ET	USA 70229964						
LORITA ROY BATS	USA 62935613						
LORITA ROZ-MAN 11533	840003124671901					C	
LORITA RUSTY SUNSET 3332	USA 70886476						3
LORITA S BRAXTON PASSION	USA 72564648		C				
LORITA S BRAXTON SAPPHIRE	USA 71253547						
LORITA SAILING HALLEY-TW	USA 72226264						
LORITA SAILING HOLLY-TW	USA 72226263						
LORITA SANCHEZ BEYONCE-TW	USA 69112579					C	
LORITA SAVAGE TARA	USA 71253537						
LORITA SCORPIO HEATHER	USA 71253580						
LORITA SEVEN P LOLA	USA 73129468						
LORITA SHAMROCK BESTIE	USA 73129493						
LORITA SHAMROCK BRITNEY	USA 72564667						
LORITA SHAMROCK ELLIE MAE	USA 73129464						
LORITA SHAMROCK FLAME	USA 73129490						
LORITA SHAMROCK HOLLY	USA 72564703						
LORITA SHAMROCK MARTHA	USA 71686876						
LORITA SHAMROCK MS TARALEE	USA 72564639						
LORITA SHAMROCK ROBIN	USA 73129487						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

225

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITA SHAMROCK TIFFANY	USA 71686877						
LORITA SHAMROCK TILLIE GEM	USA 72226253						
LORITA SHARP DINAH	USA 70708440						
LORITA SHARP RAIDERETTE	USA 71253565						
LORITA SHOTTLE BAILEY-ET	USA 69112592						
LORITA SHOTTLE BAYWATCH	840003124671894					C	
LORITA SHOTTLE BEYONCE-ET	USA 64577615					C	
LORITA SHOTTLE BRITNEY-ET	USA 64577613					C	
LORITA SHOTTLE FIRE-ET	USA 66946103						
LORITA SHOTTLE LAURA	USA 69673766						
LORITA SHOTTLE MONALISA-ET	USA 70229949					C	
LORITA SHOTTLE RAVEN-ET	USA 66254202						
LORITA SHOTTLE RENA-ET	USA 66254193					C	1
LORITA SHOTTLE RIVIERA-ET	USA 66254194						
LORITA SHOTTLE TAFFY-ET	USA 66946099						
LORITA SHOTTLE TARA-ET	USA 66946095					C	
LORITA SHOTTLE TARALEE-ET	USA 66946094					C	
LORITA SHOTTLE TIFFANY-TW	USA 69673699						
LORITA SHOTTLE TRISTEN-TW	USA 69673698						
LORITA SID PANIC	USA 71253508						
LORITA SPONGEBOB BECKY	840003124671926						
LORITA SPONGEBOB CRICKET	840003124671905						
LORITA SPONGEBOB SAPPHIRE	840003124671898						
LORITA SUBRARO 11679	840003126252596						
LORITA SUPER BRITNEY-ET	USA 70708370						
LORITA SUPERSIRE 11784	840003128057746						
LORITA SUPERSIRE AZTEC	840003126252586						
LORITA SUPERSONIC MAEBELL	USA 72564681	C					
LORITA TEMPO BEYONCE	USA 72564647					C	
LORITA TIME BAYWATCH	USA 71253529						
LORITA TIME BRIE-ET	USA 69673695						
LORITA TIME ELLEN	USA 71253532						
LORITA TIME MAKAYLA-ET	USA 69112615						
LORITA TIME MARCY	USA 71253534						
LORITA TIME MARTHA MAE-ET	USA 69112608	C					
LORITA TIME MS BRITNEY	USA 69673707						
LORITA TRIBUNE 11708	840003128057822						
LORITA UNO DEIRDRE	840003131565423						
LORITA UNO HOLLY	840003126252582						
LORITA UNO MARTHA ELLEN	USA 73129525					C	1
LORITA UNO MEGAN	840003124671914					C	
LORITA WINDBROOK BAYWATCH	USA 71253500						
LORITA WINDBROOK DINAH	USA 71253575						1
LORITA WINDBROOK YVETTE	USA 72226226						
LORITA ZMANNER BALLI	USA 71686827						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

226

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LORITAGLAZWAY AFTSHK PARIS	USA 69673738						
LORITAGLAZWAY DALEN PARIS	USA 73129536						
LORKA BOLTON TITANIA-ET	CAN 104522860						1
LORKA CAMELIA BOLTON-ET	CAN 104522859						
LORKA GOLDWYN JEWEL-ET	CAN 103127018						1
LORKA ILLEGAL PESTE P-RED-ET	CAN 107254525						
LORKA SALTO ANIKA-ET	CAN 103127022						
LORKA SALTO PIATA-RED-ET	CAN 103127001						
LORKA SALTO ROSA-ET	CAN 103127003						
LORKA SEPTEMBER MELODIE-RED-ET	CAN 102279892						
LOST-ELM NELYNN-RED-ET	USA 137299908						
LOST-HOLLOW LAKS BUTTER-RED	USA 138897837						
LOST-LAKE AFTERSHOCK CINDY	USA 74136840					C	
LOST-LAKE ALEXANDER LUCKY	USA 71549976						1
LOST-LAKE BEEMER KOOKIE	USA 74136839						
LOST-LAKE BEN P338	USA 71550010	C					
LOST-LAKE BOLTON HOPSCOTH	USA 69186450						
LOST-LAKE BROKAW JENNICA	USA 71549982						
LOST-LAKE COREY KITKAT	USA 74136836						
LOST-LAKE CORVETTE DAISY	USA 74136837						
LOST-LAKE DAMION KUDOS	USA 71549973						
LOST-LAKE DEM STRAWFLOWER	USA 71549985						
LOST-LAKE DEMPSEY COURTNEY	USA 69186460						3
LOST-LAKE DEMPSEY PIZZA	USA 69186457						
LOST-LAKE DUSK CINDERELLA	USA 71549978						
LOST-LAKE DUSK ELIXIR	USA 71549984						1
LOST-LAKE DUSK SPRING	USA 69186461						
LOST-LAKE ERNIE	USA 69186449						
LOST-LAKE FARSANO EMMA	USA 69186458						
LOST-LAKE FARSANO HONEY	USA 71549981						
LOST-LAKE GUTH JACINTA-TW	USA 71549975						3
LOST-LAKE GUTH JOLINDA-TW	USA 71549974						
LOST-LAKE GUTHRIE ELITE	USA 71549979						1
LOST-LAKE GUTHRIE KENTUCKY	USA 71549977						
LOST-LAKE HERO STRAWBERRY	USA 71549983						
LOST-LAKE LAWN-P KATRINA	USA 71549998		C				
LOST-LAKE LOU EMILY	USA 69186448						
LOST-LAKE MCCUTCHEN CLEVER	USA 74136841						1
LOST-LAKE MCCUTCHEN JUNE	USA 74136838						
LOST-LAKE MIXER PRISCILLA	USA 71549986						
LOST-LAKE STIVERS EVELYN	USA 71549980					C	
LOST-OAK ABSOLUTE LEXI-ET	USA 74208497						
LOST-OAK ABSOLUTE LYNDI-ET	USA 74208504						
LOST-OAK ARCHRIVAL SASSY-ET	840003132006394						
LOST-OAK ATLAS CAREN	USA 70022850						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

227

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOST-OAK CHELIOS CJ	USA 74208475						
LOST-OAK FEVER RUMOR	USA 71669583						
LOST-OAK G W ATWOOD LIQUOR	USA 71669609						
LOST-OAK MARC CYBIL	USA 70022852						
LOST-OAK SANCHEZ ANABEL-ET	840003132006397						
LOST-OAK SANCHEZ ASHLEY	USA 72752533						
LOT-O-ROK AIRLIFT KHAILA	840003133878842						
LOT-O-ROK ALEXANDER SILLINA	USA 65991598	C					
LOT-O-ROK ARMITAGE KAT	USA 72247539						3
LOT-O-ROK BLITZ ELEXUSLASH	USA 61643305						
LOT-O-ROK BOLTON JOSELYNE	USA 65991682						
LOT-O-ROK CM JET	USA 72247485						
LOT-O-ROK CM LIANA-ET	USA 69681368						3
LOT-O-ROK CM LYDA-ET	USA 69681373						3
LOT-O-ROK CM MICAYLA	USA 69681415						
LOT-O-ROK CM MS LIANA-ET	USA 69681375						3
LOT-O-ROK CM MS MYCALA-ET	USA 69681340						3
LOT-O-ROK CM MS NADIYAH-ET	USA 69681374						
LOT-O-ROK CM MYCALA	USA 69681281						
LOT-O-ROK CM NADIYAH	USA 69681347						
LOT-O-ROK CM SAMIAH	USA 69681396						
LOT-O-ROK CM SASHA-ET	USA 69681371						
LOT-O-ROK CM TAYA	USA 69681393						
LOT-O-ROK CROWN JAMILA	USA 69681327						
LOT-O-ROK CROWN MYCALA	USA 69681322						
LOT-O-ROK CROWN NADIYAH	USA 69681324			C		C	
LOT-O-ROK DIGGER LIANA-TW	USA 69681183						
LOT-O-ROK DIGGER NADIYAH-TW	USA 69681182						
LOT-O-ROK DOBERMAN ATHZIRI	USA 69681240	C					
LOT-O-ROK DOBERMAN KHAILA	USA 69681285						
LOT-O-ROK DOBERMAN LEENA	USA 69681262						
LOT-O-ROK DOBERMAN NADIYAH	USA 69681331						
LOT-O-ROK DOM JOSEY	USA 72247492						
LOT-O-ROK DOM KENDLE	USA 72247577						
LOT-O-ROK DORCY KATE	USA 72247584						
LOT-O-ROK DORCY MYLA	USA 72247548						
LOT-O-ROK DORCY NAT	USA 72247521						
LOT-O-ROK E-LVIEW CM LIANA	USA 69681482						
LOT-O-ROK EMERALD DAISY	USA 69681488	C					
LOT-O-ROK EMERALD KHAILA	USA 69681376	C					
LOT-O-ROK EMERALD KIRSTEN	USA 72247486						
LOT-O-ROK EMERALD MILA	USA 69681356						
LOT-O-ROK EMERALD MS MYCALA	USA 69681443						
LOT-O-ROK EMERALD MYCA	USA 69681473						
LOT-O-ROK EMERALD MYCALA-TW	USA 69681329						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

228

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOT-O-ROK EMERALD NAT	USA 69681357						
LOT-O-ROK EMERALD SARAH-TW	USA 69681328	C					
LOT-O-ROK EPIC ADRIEL-ET	USA 69681386						
LOT-O-ROK EPIC KATE-ET	USA 69681419						
LOT-O-ROK EPIC SADIE-ET	USA 69681391						1
LOT-O-ROK ERUPT JACQ	USA 72247833						
LOT-O-ROK GABOR DARREL	USA 72247648						
LOT-O-ROK GABOR JAMILA	USA 72247593						
LOT-O-ROK GABOR KIRSTEN	USA 72247657						3
LOT-O-ROK GABOR MS KIRSTEN	USA 72247732						
LOT-O-ROK GALAXY EMMA-ET	USA 72247504						1
LOT-O-ROK GALAXY JAMI-ET	USA 72247524						
LOT-O-ROK GALAXY KAT-ET	USA 72247523						1
LOT-O-ROK GALAXY LU	USA 72247516						
LOT-O-ROK GARRETT BETH	USA 69681422						
LOT-O-ROK GARRETT BRIT	USA 69681478						
LOT-O-ROK GARRETT REESE	USA 69681258						
LOT-O-ROK GAVIN KAI	USA 72247481					C	
LOT-O-ROK GAVIN LIANA	USA 72247522					C	
LOT-O-ROK GAVIN SARAH	USA 72247488						
LOT-O-ROK GC DANE-ET	USA 69681430	C					
LOT-O-ROK GC DARCY-ET	USA 69681435	C					
LOT-O-ROK GC KHAILA-ET	USA 69681312	C					
LOT-O-ROK GC KIRSTEN-ET	USA 69681431	C					
LOT-O-ROK GC MYCA-ET	USA 69681434						
LOT-O-ROK GOLD CHIP SAMIAH	USA 69681318						
LOT-O-ROK GOLD CHIP SARAH	USA 69681316	C					
LOT-O-ROK GOLDCHIP SARAH	USA 69681313	C					
LOT-O-ROK GOLDWYN ALANIS-ET	USA 61643372						1
LOT-O-ROK HADRAIN MYCALA	USA 72247505						
LOT-O-ROK HADRAIN SAMIAH	USA 72247506						
LOT-O-ROK IMPRESSION LANA	USA 72247768						
LOT-O-ROK JABIR SAMIAH-ET	USA 72247611						1
LOT-O-ROK JABIR SASHA	USA 72247618	C					
LOT-O-ROK JEROD FAY	USA 72247589						
LOT-O-ROK JETT AIR MAYS	USA 72247617						
LOT-O-ROK JETT AIR MYCALA	USA 72247680						
LOT-O-ROK JETT AIR SASHA	USA 72247623						
LOT-O-ROK JIVES NADIYAH-ET	USA 69681297						
LOT-O-ROK LARGE SAMIAH	USA 69681416	C					
LOT-O-ROK LATROY TARA	USA 69681412						
LOT-O-ROK LITHIUM BESS	USA 72247464	C					
LOT-O-ROK LITHIUM DOT	USA 72247474						
LOT-O-ROK LITHIUM KAT	USA 72247484						
LOT-O-ROK LITHIUM SAGE	USA 72247473						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

229

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOT-O-ROK LONGVIEW CM LIANA	USA 69681452	C					
LOT-O-ROK MANIFOLD KHAILA	USA 72247846			C			
LOT-O-ROK MANIFOLD MIAH	USA 72247824			C			
LOT-O-ROK MARSHALL GISELE	USA 60440918	C					
LOT-O-ROK MASSEY NADIYAH	USA 72247507						
LOT-O-ROK MAUI CHARMESHA	USA 72247832						3
LOT-O-ROK MOGUL PHYLIS	USA 72247661						
LOT-O-ROK MOGUL SADY	USA 72247857						
LOT-O-ROK OBSERVER NAN	USA 72247619						
LOT-O-ROK ORIENT JAMILA	USA 69681485						
LOT-O-ROK ORIENT KRIS	USA 69681426						
LOT-O-ROK PLANET DANE	USA 69681429						
LOT-O-ROK PLANET KIRSTEN	USA 69681287						
LOT-O-ROK PLANET SADIE	USA 69681346						
LOT-O-ROK PLANET SAMIAH	USA 72247698					C	
LOT-O-ROK PLANET SASHA	USA 69681351						
LOT-O-ROK SHAM TASHIA	USA 72247462						
LOT-O-ROK SHAMROCK BEA	USA 72247467						
LOT-O-ROK SHAMROCK BERKLY	USA 72247470						
LOT-O-ROK SHAMROCK DEMY	USA 72247476						
LOT-O-ROK SHAMROCK GLO	USA 72247460						
LOT-O-ROK SHAMROCK KHAILA	USA 69681326						
LOT-O-ROK SHAMROCK LIANA	USA 69681263						
LOT-O-ROK SHAMROCK RITA	USA 72247456						
LOT-O-ROK SHAN ADRA	USA 72247542	C					
LOT-O-ROK SHANE CHRISTIN	USA 69681257						
LOT-O-ROK SHANE MYCALA	USA 69681359						
LOT-O-ROK SHERAC NAN	USA 69681427						
LOT-O-ROK SUPER CALY	USA 72247472						
LOT-O-ROK SUPER ILA	USA 72247482						
LOT-O-ROK TRIGGER NADIYAH	USA 69681417					C	
LOT-O-ROK YANCE MS JAMILA	USA 72247731						
LOTHLORIEN 1STCLASS 4742-ET	840003130828985						
LOTHLORIEN 1STCLASS 4743-ET	840003130828986						
LOTHLORIEN 1STCLASS 4747-ET	840003130828990						
LOTHLORIEN 1STCLASS 4850	840003130829093						
LOTHLORIEN 1STCLASS 4853	840003130829096						
LOTHLORIEN 2899-RED	USA 66657399						
LOTHLORIEN 3090	USA 69007233						
LOTHLORIEN 3114	USA 69763688			C			
LOTHLORIEN 3168	USA 69763742						
LOTHLORIEN 3174	USA 69763748			C			
LOTHLORIEN 3219	USA 69763793						
LOTHLORIEN 3469	USA 70349596						
LOTHLORIEN 5G 4424	USA 73870110						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN 5G 4426	USA 73870112						
LOTHLORIEN 5G 4504	USA 73870190						
LOTHLORIEN 5G 4505	USA 73870191						
LOTHLORIEN ADRIAN 4488	USA 73870174						
LOTHLORIEN ADRIAN 4514	USA 73870200	C					
LOTHLORIEN ADRIAN 4521	USA 73870207						
LOTHLORIEN AIKMAN 4613	840003130828856						
LOTHLORIEN AIKMAN 4631	840003130828874						
LOTHLORIEN ALL DAY 4679	840003130828922						
LOTHLORIEN ALL DAY 4702	840003130828945						
LOTHLORIEN ALL DAY 4763	840003130829006						
LOTHLORIEN ALL DAY 4792	840003130829035						
LOTHLORIEN ALTASTACKED 4233	USA 72806712			C			
LOTHLORIEN AMBIENT 4340	USA 73870026						
LOTHLORIEN AMBIENT 4351	USA 73870037	C					
LOTHLORIEN AMBIENT 4372	USA 73870058						
LOTHLORIEN AMBIENT 4381	USA 73870067						
LOTHLORIEN ARCHIVE 4370-RED	USA 73870056						1
LOTHLORIEN ARCHIVE 4383	USA 73870069						3
LOTHLORIEN ARCHIVE 4398	USA 73870084						3
LOTHLORIEN ARCHIVE 4425	USA 73870111						
LOTHLORIEN ARMONDO 4388	USA 73870074						
LOTHLORIEN ARMONDO 4389	USA 73870075						
LOTHLORIEN ARMONDO 4401	USA 73870087	C					
LOTHLORIEN AVENGER 4617	840003130828860						
LOTHLORIEN AVENGER 4620	840003130828863						
LOTHLORIEN AVENGER 4623	840003130828866						
LOTHLORIEN AVENGER 4629	840003130828872						
LOTHLORIEN AVENGER 4630	840003130828873						
LOTHLORIEN AVENGER 4636	840003130828879						
LOTHLORIEN AVENGER 4637	840003130828880			C			
LOTHLORIEN AVENGER 4663	840003130828906						
LOTHLORIEN AVENGER 4664	840003130828907						
LOTHLORIEN AVENGER 4668	840003130828911						
LOTHLORIEN AVENGER 4724	840003130828967						
LOTHLORIEN AVENGER 4745	840003130828988						
LOTHLORIEN AVENGER 4748	840003130828991						
LOTHLORIEN AVENGER 4753	840003130828996						
LOTHLORIEN AVENGER 4757	840003130829000						
LOTHLORIEN BAM BAM 4405	USA 73870091	C					
LOTHLORIEN BAROMETER 4007	USA 72806486						
LOTHLORIEN BAROMETER 4020	USA 72806499						3
LOTHLORIEN BAROMETER 4047	USA 72806526						
LOTHLORIEN BAROMETER 4050	USA 72806529			C			
LOTHLORIEN BAROMETER 4144	USA 72806623						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN BAROMETER 4205	USA 72806684						
LOTHLORIEN BAROMETER 4208	USA 72806687						
LOTHLORIEN BELIZE 4346	USA 73870032						
LOTHLORIEN BELIZE 4379	USA 73870065						
LOTHLORIEN BIGLEAGUE 4393	USA 73870079						
LOTHLORIEN BRUTUS 4522	USA 73870208						
LOTHLORIEN BRUTUS 4536	USA 73870222						
LOTHLORIEN BRUTUS 4538	USA 73870224						
LOTHLORIEN CABELLA 4477	USA 73870163						
LOTHLORIEN CABELLA 4483	USA 73870169						
LOTHLORIEN CABELLA 4485	USA 73870171						
LOTHLORIEN CABRIOLET 4540	USA 73870226						
LOTHLORIEN CABRIOLET 4556	USA 73870242						
LOTHLORIEN CABRIOLET 4568	USA 73870254						
LOTHLORIEN CABRIOLET 4586	USA 73870272						
LOTHLORIEN CABRIOLET 4597	USA 73870283			C			
LOTHLORIEN CABRIOLET 4604	840003130828847						
LOTHLORIEN CABRIOLET 4642	840003130828885						
LOTHLORIEN CABRIOLET 4650	840003130828893						
LOTHLORIEN CABRIOLET 4659	840003130828902						
LOTHLORIEN CABRIOLET 4667	840003130828910						
LOTHLORIEN CARLINO 4773	840003130829016						
LOTHLORIEN CARLINO 4791	840003130829034						
LOTHLORIEN CARLINO 4793	840003130829036						
LOTHLORIEN CARLINO 4800	840003130829043						
LOTHLORIEN CHARGER 4681	840003130828924						
LOTHLORIEN CHARGER 4686	840003130828929						
LOTHLORIEN CHARGER 4690	840003130828933						
LOTHLORIEN CHASER 4733	840003130828976	C					
LOTHLORIEN CHASER 4736	840003130828979						
LOTHLORIEN DAKOMIN 4678	840003130828921						
LOTHLORIEN DAKOMIN 4693	840003130828936						
LOTHLORIEN DAKOMIN 4700	840003130828943						
LOTHLORIEN DAY 4130	USA 72806609						
LOTHLORIEN DAY 4140	USA 72806619						
LOTHLORIEN DAY 4150	USA 72806629						
LOTHLORIEN DEUCE 4676	840003130828919						
LOTHLORIEN DEUCE 4682	840003130828925						
LOTHLORIEN DEUCE 4696	840003130828939						
LOTHLORIEN DISGUISE 4719	840003130828962						3
LOTHLORIEN DOMINATOR 4721	840003130828964						
LOTHLORIEN DOMINATOR 4731	840003130828974						
LOTHLORIEN DOMINATOR 4740	840003130828983						
LOTHLORIEN DONOTI 4826	840003130829069		C				
LOTHLORIEN DONOTI 4832	840003130829075						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN DONOTI 4836	840003130829079						
LOTHLORIEN DSON 4362	USA 73870048						
LOTHLORIEN DUCATI 4173-RED	USA 72806652						
LOTHLORIEN DUCATI 4256-RED	USA 72806735						
LOTHLORIEN DUCATI 4305-RED	USA 73869991						
LOTHLORIEN DUCATI 4306-RED	USA 73869992						
LOTHLORIEN DUCATI 4373	USA 73870059						
LOTHLORIEN DUCATI 4407	USA 73870093						
LOTHLORIEN DUGGER 4815	840003130829058						
LOTHLORIEN DUGGER 4816	840003130829059						
LOTHLORIEN DUGGER 4821	840003130829064						
LOTHLORIEN EMERALD 4449	USA 73870135						
LOTHLORIEN EMERALD 4450	USA 73870136						
LOTHLORIEN EMERALD 4452	USA 73870138		C			C	
LOTHLORIEN EMERALD 4541	USA 73870227						
LOTHLORIEN EMERALD 4548	USA 73870234						
LOTHLORIEN EMERALD 4549	USA 73870235						
LOTHLORIEN EMERALD 4552	USA 73870238						
LOTHLORIEN EMERALD 4584	USA 73870270						
LOTHLORIEN EMERALD 4595	USA 73870281						
LOTHLORIEN EMERALD 4606	840003130828849						
LOTHLORIEN EMERALD 4609	840003130828852						
LOTHLORIEN EMERALD 4611	840003130828854						
LOTHLORIEN EMERALD 4624	840003130828867						
LOTHLORIEN EMERALD 4625	840003130828868						
LOTHLORIEN EMERALD 4665	840003130828908						
LOTHLORIEN EMERALD 4670	840003130828913	C					
LOTHLORIEN EMERALD 4674	840003130828917						
LOTHLORIEN EMERALD 4691	840003130828934						
LOTHLORIEN EMERALD 4694	840003130828937						
LOTHLORIEN EMERALD 4698	840003130828941						
LOTHLORIEN EMERALD 4701	840003130828944						
LOTHLORIEN EMERALD 4729	840003130828972						
LOTHLORIEN EMERALD 4730	840003130828973						
LOTHLORIEN EMERALD 4735	840003130828978						
LOTHLORIEN EMERALD 4744	840003130828987						
LOTHLORIEN EMERALD 4758	840003130829001						
LOTHLORIEN EMERALD 4767	840003130829010						
LOTHLORIEN EMULATE 4413	USA 73870099						
LOTHLORIEN FIVE STAR 4601	840003130828844						
LOTHLORIEN FLYN 4699	840003130828942						
LOTHLORIEN FLYN 4711	840003130828954			C			
LOTHLORIEN FLYN 4717	840003130828960						
LOTHLORIEN FLYN 4720	840003130828963						
LOTHLORIEN FLYN 4725	840003130828968						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

233

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN FLYN 4741	840003130828984						
LOTHLORIEN FREDDIE 4331	USA 73870017						
LOTHLORIEN FREDDIE 4341	USA 73870027						
LOTHLORIEN FREDDIE 4399	USA 73870085						
LOTHLORIEN FREDDIE 4400	USA 73870086						
LOTHLORIEN FREDDIE 4410	USA 73870096						
LOTHLORIEN FUZION 4320	USA 73870006						3
LOTHLORIEN FUZION 4374	USA 73870060						1
LOTHLORIEN FUZION 4378	USA 73870064			C			1
LOTHLORIEN GATEKEEPER 4645	840003130828888						3
LOTHLORIEN GATEKEEPER 4654	840003130828897						
LOTHLORIEN GATEKEEPER 4658	840003130828901						
LOTHLORIEN GEMSTONE 4555	USA 73870241						
LOTHLORIEN GEMSTONE 4573	USA 73870259						
LOTHLORIEN INDY 4125	USA 72806604						
LOTHLORIEN INDY 4129	USA 72806608						
LOTHLORIEN INDY 4153	USA 72806632						
LOTHLORIEN INDY 4163	USA 72806642			C			
LOTHLORIEN INDY 4203	USA 72806682	C					
LOTHLORIEN INDY 4223	USA 72806702						
LOTHLORIEN INDY 4232	USA 72806711						
LOTHLORIEN INDY 4241	USA 72806720						
LOTHLORIEN INDY 4257-TW	USA 72806736						
LOTHLORIEN INDY 4258-TW	USA 72806737						
LOTHLORIEN INDY 4263	USA 72806742						
LOTHLORIEN INDY 4265	USA 72806744						
LOTHLORIEN INDY 4284	USA 72806763						
LOTHLORIEN INSIDER 4761	840003130829004						
LOTHLORIEN INSIDER 4762	840003130829005						
LOTHLORIEN INSIDER 4778	840003130829021						
LOTHLORIEN INSIDER 4835	840003130829078						
LOTHLORIEN INSIDER 4845	840003130829088						
LOTHLORIEN INSIDER 4855	840003130829098						
LOTHLORIEN INSIDER 4858	840003130829101						
LOTHLORIEN JACEY 4590	USA 73870276						
LOTHLORIEN JACEY 4632	840003130828875						
LOTHLORIEN JACKMAN 4171	USA 72806650						
LOTHLORIEN JACKMAN 4176	USA 72806655			C			
LOTHLORIEN JACKMAN 4192	USA 72806671						
LOTHLORIEN JACKMAN 4196	USA 72806675			C			
LOTHLORIEN JACKMAN 4199	USA 72806678			C			
LOTHLORIEN JACKMAN 4238	USA 72806717	C		C			
LOTHLORIEN JACKMAN 4247-TW	USA 72806726			C			
LOTHLORIEN JACKMAN 4248-TW	USA 72806727			C			
LOTHLORIEN JACKMAN 4249	USA 72806728	C					

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN JACKMAN 4250	USA 72806729						
LOTHLORIEN JACKMAN 4279	USA 72806758			C			
LOTHLORIEN JACKMAN 4293-TW	USA 72806772						
LOTHLORIEN JACKMAN 4294-TW	USA 72806773			C			
LOTHLORIEN JACKMAN 4309	USA 73869995						
LOTHLORIEN JACKMAN 4317	USA 73870003			C			
LOTHLORIEN JACKMAN 4322	USA 73870008			C			
LOTHLORIEN JACKMAN 4343	USA 73870029			C			
LOTHLORIEN JACKMAN 4347	USA 73870033						
LOTHLORIEN JACKMAN 4367	USA 73870053			C			
LOTHLORIEN JACKMAN 4382	USA 73870068						
LOTHLORIEN JACKMAN 4387	USA 73870073			C			3
LOTHLORIEN JACKMAN 4392	USA 73870078						
LOTHLORIEN JACKMAN 4394	USA 73870080						
LOTHLORIEN JACKMAN 4408	USA 73870094			C			
LOTHLORIEN JACKMAN 4411	USA 73870097						
LOTHLORIEN JACKMAN 4420	USA 73870106						
LOTHLORIEN JAKE 4041	USA 72806520						
LOTHLORIEN JAKE 4103	USA 72806582						
LOTHLORIEN JAKE 4139	USA 72806618						
LOTHLORIEN JAKE 4149	USA 72806628						
LOTHLORIEN JAKE 4151	USA 72806630						
LOTHLORIEN JAKE 4172	USA 72806651						
LOTHLORIEN JAKE 4187	USA 72806666						
LOTHLORIEN JAKE 4191	USA 72806670						
LOTHLORIEN JAKE 4193	USA 72806672			C			
LOTHLORIEN JAKE 4194	USA 72806673						
LOTHLORIEN JAKE 4200	USA 72806679						
LOTHLORIEN JAKE 4221	USA 72806700						
LOTHLORIEN JAKE 4229	USA 72806708						
LOTHLORIEN JAKE 4255	USA 72806734						
LOTHLORIEN JAKE 4262	USA 72806741						
LOTHLORIEN JAKE 4267	USA 72806746						
LOTHLORIEN JAKE 4281	USA 72806760						
LOTHLORIEN JAKE 4325	USA 73870011						
LOTHLORIEN JAKE 4329	USA 73870015						
LOTHLORIEN JAKE 4330	USA 73870016						
LOTHLORIEN JAKE 4339	USA 73870025						
LOTHLORIEN JAKE 4352	USA 73870038						
LOTHLORIEN JEROD 4230	USA 72806709						
LOTHLORIEN JITTERBUG 4298	USA 72806777						
LOTHLORIEN JITTERBUG 4308	USA 73869994						
LOTHLORIEN JITTERBUG 4324	USA 73870010						
LOTHLORIEN JITTERBUG 4328	USA 73870014						
LOTHLORIEN JITTERBUG 4503	USA 73870189						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN JITTERBUG 4506	USA 73870192						
LOTHLORIEN JITTERBUG 4511	USA 73870197						
LOTHLORIEN JITTERBUG 4516	USA 73870202						
LOTHLORIEN JITTERBUG 4520	USA 73870206						
LOTHLORIEN JITTERBUG 4529	USA 73870215						
LOTHLORIEN JITTERBUG 4564	USA 73870250						
LOTHLORIEN JITTERBUG 4565	USA 73870251						
LOTHLORIEN JITTERBUG 4579	USA 73870265						
LOTHLORIEN JITTERBUG 4582	USA 73870268						
LOTHLORIEN JITTERBUG 4585	USA 73870271						
LOTHLORIEN JITTERBUG 4592	USA 73870278						
LOTHLORIEN JITTERBUG 4303-TW	USA 73869989						
LOTHLORIEN JORCK 4209	USA 72806688						3
LOTHLORIEN JORCK 4212-RED	USA 72806691						
LOTHLORIEN JORCK 4242-RED	USA 72806721						
LOTHLORIEN JORCK 4297-RED	USA 72806776						
LOTHLORIEN JOSUPER 4806	840003130829049						
LOTHLORIEN JOSUPER 4830	840003130829073						
LOTHLORIEN KEYBOARD 4169	USA 72806648						3
LOTHLORIEN KEYBOARD 4182	USA 72806661						
LOTHLORIEN KEYBOARD 4215	USA 72806694						
LOTHLORIEN KEYBOARD 4217	USA 72806696						
LOTHLORIEN KEYBOARD 4252	USA 72806731						
LOTHLORIEN KEYBOARD 4291	USA 72806770						3
LOTHLORIEN KEYBOARD 4421	USA 73870107						
LOTHLORIEN KEYBOARD 4454	USA 73870140						1
LOTHLORIEN KEYBOARD 4458	USA 73870144						
LOTHLORIEN KEYBOARD 4459	USA 73870145						3
LOTHLORIEN KEYBOARD 4460	USA 73870146						1
LOTHLORIEN KEYBOARD 4463	USA 73870149						4
LOTHLORIEN KEYBOARD 4479	USA 73870165						1
LOTHLORIEN KEYBOARD 4502	USA 73870188						
LOTHLORIEN KEYBOARD 4557	USA 73870243						3
LOTHLORIEN KEYBOARD 4559	USA 73870245						1
LOTHLORIEN KEYBOARD 4575	USA 73870261						
LOTHLORIEN KEYBOARD 4591	USA 73870277						3
LOTHLORIEN KEYBOARD 4600	USA 73870286						1
LOTHLORIEN KEYBOARD 4602	840003130828845						3
LOTHLORIEN KEYBOARD 4603	840003130828846						
LOTHLORIEN KEYBOARD 4615	840003130828858						
LOTHLORIEN KEYBOARD 4621	840003130828864						3
LOTHLORIEN KEYBOARD 4627	840003130828870						3
LOTHLORIEN KEYBOARD 4635	840003130828878						3
LOTHLORIEN KEYBOARD 4646	840003130828889						
LOTHLORIEN KEYBOARD 4655	840003130828898						1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN KEYBOARD 4675	840003130828918						1
LOTHLORIEN KEYBOARD 4677	840003130828920						1
LOTHLORIEN KEYBOARD 4689	840003130828932						
LOTHLORIEN KEYBOARD 4704	840003130828947						1
LOTHLORIEN KEYBOARD 4706	840003130828949			C			3
LOTHLORIEN KEYBOARD 4710	840003130828953						3
LOTHLORIEN KEYBOARD 4727	840003130828970						3
LOTHLORIEN KEYBOARD 4750	840003130828993						1
LOTHLORIEN KEYBOARD 4754	840003130828997						
LOTHLORIEN KEYBOARD 4755	840003130828998						
LOTHLORIEN KEYBOARD 4765	840003130829008						1
LOTHLORIEN KEYBOARD 4785	840003130829028						
LOTHLORIEN KEYBOARD 4794	840003130829037						
LOTHLORIEN KEYBOARD 4851	840003130829094						1
LOTHLORIEN KOOL 4005	USA 72806484						
LOTHLORIEN KRISTOFF 4119	USA 72806598						
LOTHLORIEN KRISTOFF 4135	USA 72806614						
LOTHLORIEN KRISTOFF 4143	USA 72806622						
LOTHLORIEN KRISTOFF 4145	USA 72806624						
LOTHLORIEN KRISTOFF 4156	USA 72806635						
LOTHLORIEN KRISTOFF 4189	USA 72806668						
LOTHLORIEN KRISTOFF 4201	USA 72806680						
LOTHLORIEN KRISTOFF 4216	USA 72806695						
LOTHLORIEN KRISTOFF 4244	USA 72806723			C			
LOTHLORIEN KRISTOFF 4260	USA 72806739						
LOTHLORIEN KRISTOFF 4261	USA 72806740						
LOTHLORIEN KRISTOFF 4268	USA 72806747						
LOTHLORIEN KRISTOFF 4282	USA 72806761						
LOTHLORIEN KRISTOFF 4283	USA 72806762						
LOTHLORIEN KRISTOFF 4286	USA 72806765						
LOTHLORIEN KRISTOFF 4287	USA 72806766						
LOTHLORIEN KRISTOFF 4296	USA 72806775						
LOTHLORIEN KRISTOFF 4307	USA 73869993						
LOTHLORIEN KRISTOFF 4337	USA 73870023						
LOTHLORIEN KRISTOFF 4355	USA 73870041						
LOTHLORIEN KRISTOFF 4357	USA 73870043						
LOTHLORIEN KRISTOFF 4375	USA 73870061						
LOTHLORIEN KRISTOFF 4396	USA 73870082						
LOTHLORIEN KRISTOFF 4404	USA 73870090						
LOTHLORIEN KRISTOFF 4412	USA 73870098						
LOTHLORIEN KRISTOFF 4417	USA 73870103						
LOTHLORIEN LANGDON 4525	USA 73870211			C			
LOTHLORIEN LANGDON 4531	USA 73870217						
LOTHLORIEN LANGDON 4532	USA 73870218						
LOTHLORIEN LANGDON 4533	USA 73870219						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

237

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN LAWLER 4181	USA 72806660						
LOTHLORIEN LEADED 4490	USA 73870176						
LOTHLORIEN LEADED 4662	840003130828905						
LOTHLORIEN LEADED 4666	840003130828909						
LOTHLORIEN LEADED 4722	840003130828965						
LOTHLORIEN LEADER 4441	USA 73870127	C					
LOTHLORIEN LEADER 4444	USA 73870130						1
LOTHLORIEN LEADER 4478	USA 73870164						
LOTHLORIEN LEADER 4481	USA 73870167						
LOTHLORIEN LEADER 4560	USA 73870246						
LOTHLORIEN LEADER 4570	USA 73870256						
LOTHLORIEN LEADER 4571	USA 73870257						
LOTHLORIEN LEADER 4576	USA 73870262						
LOTHLORIEN LEADER 4593	USA 73870279						
LOTHLORIEN LEADER 4596	USA 73870282						
LOTHLORIEN LEADER 4810	840003130829053						
LOTHLORIEN LEADER 4817	840003130829060						
LOTHLORIEN LIFELONG 4409	USA 73870095						
LOTHLORIEN LIVEWIRE 4848	840003130829091						
LOTHLORIEN LOMBARDI 4497	USA 73870183						
LOTHLORIEN LOMBARDI 4508	USA 73870194						
LOTHLORIEN LOMBARDI 4509	USA 73870195						
LOTHLORIEN LOMBARDI 4517	USA 73870203						
LOTHLORIEN LOMBARDI 4519	USA 73870205						
LOTHLORIEN LOMBARDI 4523	USA 73870209						
LOTHLORIEN LOMBARDI 4526	USA 73870212						
LOTHLORIEN LOMBARDI 4527	USA 73870213						
LOTHLORIEN LOMBARDI 4530	USA 73870216						
LOTHLORIEN LOMBARDI 4537	USA 73870223						
LOTHLORIEN LOVEBOAT 4777	840003130829020						
LOTHLORIEN LOVEBOAT 4801	840003130829044						
LOTHLORIEN LOVEBOAT 4808	840003130829051						
LOTHLORIEN LOVEBOAT 4809	840003130829052						
LOTHLORIEN LOVEBOAT 4814	840003130829057	C					
LOTHLORIEN LOWDOWN 4626	840003130828869						
LOTHLORIEN MAN-O-MAN2 4023	USA 72806502						
LOTHLORIEN MAN-O-MAN2 4100	USA 72806579						
LOTHLORIEN MAN-O-MAN2 4101	USA 72806580						
LOTHLORIEN MAN-O-MAN2 4102	USA 72806581						
LOTHLORIEN MAN-O-MAN2 4122	USA 72806601						
LOTHLORIEN MAN-O-MAN2 4219	USA 72806698						
LOTHLORIEN MAN-O-MAN2 4224	USA 72806703						
LOTHLORIEN MAN-O-MAN2 4288	USA 72806767						
LOTHLORIEN MAN-O-MAN2 4292	USA 72806771			C			
LOTHLORIEN MAN-O-MAN2 4295	USA 72806774						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN MAN-O-MAN2 4299	USA 72806778						
LOTHLORIEN MAN-O-MAN2 4313	USA 73869999						
LOTHLORIEN MAN-O-MAN2 4342	USA 73870028						
LOTHLORIEN MAN-O-MAN2 4384	USA 73870070						
LOTHLORIEN MARCELON 3764	USA 71909206						
LOTHLORIEN MASSEY 4319	USA 73870005						
LOTHLORIEN MASSEY 4350	USA 73870036	C					
LOTHLORIEN MOGUL 4098	USA 72806577						
LOTHLORIEN MOGUL 4111	USA 72806590						
LOTHLORIEN MOGUL 4112	USA 72806591						
LOTHLORIEN MOGUL 4128	USA 72806607						
LOTHLORIEN MOGUL 4133	USA 72806612						
LOTHLORIEN MOGUL 4137	USA 72806616						
LOTHLORIEN MOGUL 4138	USA 72806617						
LOTHLORIEN MONTROSS 4619	840003130828862						
LOTHLORIEN MONTROSS 4644	840003130828887						
LOTHLORIEN MOONRAY 4107	USA 72806586			C			
LOTHLORIEN MOONRAY 4109	USA 72806588						
LOTHLORIEN MOONRAY 4120	USA 72806599						
LOTHLORIEN MOONRAY 4131	USA 72806610						
LOTHLORIEN MOONRAY 4136	USA 72806615						
LOTHLORIEN MOONRAY 4168	USA 72806647						
LOTHLORIEN MOONRAY 4183	USA 72806662						
LOTHLORIEN MOONRAY 4197	USA 72806676						
LOTHLORIEN MOONRAY 4202	USA 72806681						
LOTHLORIEN MOONRAY 4210	USA 72806689						
LOTHLORIEN O-STYLE 4105-TW	USA 72806584			C			
LOTHLORIEN O-STYLE 4108	USA 72806587						
LOTHLORIEN O-STYLE 4110	USA 72806589	C					
LOTHLORIEN O-STYLE 4114	USA 72806593			C			
LOTHLORIEN O-STYLE 4155	USA 72806634			C			
LOTHLORIEN OLIVER 4240	USA 72806719						
LOTHLORIEN PAY CHECK 4461	USA 73870147			C			
LOTHLORIEN PAY CHECK 4467	USA 73870153						
LOTHLORIEN PAY CHECK 4473	USA 73870159			C			
LOTHLORIEN PAY CHECK 4475	USA 73870161	C		C			3
LOTHLORIEN PAY CHECK 4476	USA 73870162						
LOTHLORIEN PEPIN 4583-RED	USA 73870269						1
LOTHLORIEN PLANET 4094	USA 72806573						
LOTHLORIEN PLANET 4097	USA 72806576						
LOTHLORIEN PLANET 4099	USA 72806578						
LOTHLORIEN PLANET 4132	USA 72806611						
LOTHLORIEN PLATINUM 4494	USA 73870180						
LOTHLORIEN PLATINUM 4495	USA 73870181						
LOTHLORIEN PLATINUM 4498	USA 73870184						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN PLATINUM 4500	USA 73870186						
LOTHLORIEN PLATINUM 4669	840003130828912						
LOTHLORIEN PLATINUM 4707	840003130828950						
LOTHLORIEN PLATINUM 4712	840003130828955						
LOTHLORIEN POTENT 4524	USA 73870210						1
LOTHLORIEN PRDSTINE 4270-TW	USA 72806749		C				3
LOTHLORIEN PRDSTINE 4271-TW	USA 72806750						3
LOTHLORIEN PREDESTINE 4462	USA 73870148						3
LOTHLORIEN PREDESTINE 4489	USA 73870175						
LOTHLORIEN PUZZLE 4123	USA 72806602						
LOTHLORIEN PUZZLE 4127	USA 72806606						
LOTHLORIEN PUZZLE 4134	USA 72806613						
LOTHLORIEN PUZZLE 4141	USA 72806620						
LOTHLORIEN PUZZLE 4147	USA 72806626						
LOTHLORIEN PUZZLE 4165	USA 72806644						
LOTHLORIEN PUZZLE 4174	USA 72806653						
LOTHLORIEN PUZZLE 4177	USA 72806656			C			
LOTHLORIEN PUZZLE 4178	USA 72806657						
LOTHLORIEN PUZZLE 4180	USA 72806659						
LOTHLORIEN PUZZLE 4184	USA 72806663						
LOTHLORIEN PUZZLE 4186	USA 72806665			C			
LOTHLORIEN PUZZLE 4188	USA 72806667						
LOTHLORIEN PUZZLE 4195	USA 72806674				C		
LOTHLORIEN PUZZLE 4214	USA 72806693						
LOTHLORIEN PUZZLE 4235-TW	USA 72806714						
LOTHLORIEN PUZZLE 4236-TW	USA 72806715						
LOTHLORIEN PUZZLE 4237	USA 72806716						
LOTHLORIEN PUZZLE 4239	USA 72806718						
LOTHLORIEN PUZZLE 4246	USA 72806725						
LOTHLORIEN PUZZLE 4253	USA 72806732						
LOTHLORIEN PUZZLE 4254	USA 72806733						
LOTHLORIEN PUZZLE 4259	USA 72806738						
LOTHLORIEN PUZZLE 4302	USA 73869988						
LOTHLORIEN PUZZLE 4310	USA 73869996						
LOTHLORIEN PUZZLE 4318	USA 73870004						
LOTHLORIEN PUZZLE 4321	USA 73870007						
LOTHLORIEN PUZZLE 4326	USA 73870012						
LOTHLORIEN PUZZLE 4338	USA 73870024						
LOTHLORIEN PUZZLE 4349	USA 73870035						
LOTHLORIEN PUZZLE 4403	USA 73870089						
LOTHLORIEN PUZZLE 4442	USA 73870128						
LOTHLORIEN PUZZLE 4445	USA 73870131						
LOTHLORIEN PUZZLE 4447	USA 73870133						
LOTHLORIEN PUZZLE 4786	840003130829029						
LOTHLORIEN RABO 4739	840003130828982						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

240

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN RABO 4823	840003130829066						
LOTHLORIEN RABO 4843	840003130829086						
LOTHLORIEN RACER 4431	USA 73870117						
LOTHLORIEN RACER 4466	USA 73870152						
LOTHLORIEN RACER 4468	USA 73870154						
LOTHLORIEN RACER 4487	USA 73870173						
LOTHLORIEN RACER 4577	USA 73870263						
LOTHLORIEN RACER 4639-TW	840003130828882						
LOTHLORIEN RAINIER 4104	USA 72806583	C					
LOTHLORIEN RAINIER 4142	USA 72806621						3
LOTHLORIEN RAINIER 4148	USA 72806627						3
LOTHLORIEN RAINIER 4152	USA 72806631						3
LOTHLORIEN RAINIER 4157	USA 72806636						
LOTHLORIEN RAINIER 4162	USA 72806641						
LOTHLORIEN RAINIER 4167	USA 72806646						
LOTHLORIEN RAINIER 4179	USA 72806658						
LOTHLORIEN RAMPAGE 4546	USA 73870232						
LOTHLORIEN RAMPAGE 4547	USA 73870233						
LOTHLORIEN RAMPAGE 4550	USA 73870236						
LOTHLORIEN RAMPAGE 4554	USA 73870240						
LOTHLORIEN RAMPAGE 4561	USA 73870247						
LOTHLORIEN RIPKEN 4588	USA 73870274	C					
LOTHLORIEN RSIRE 4030-ET	USA 72806509			C			
LOTHLORIEN SALVINO 4422	USA 73870108						
LOTHLORIEN SALVINO 4438	USA 73870124						
LOTHLORIEN SALVINO 4484	USA 73870170			C			
LOTHLORIEN SALVINO 4493	USA 73870179						
LOTHLORIEN SAMPSON 4709-TW	840003130828952						
LOTHLORIEN SAMPSON 4715	840003130828958						
LOTHLORIEN SAMPSON 4726	840003130828969						
LOTHLORIEN SAMPSON 4738	840003130828981						
LOTHLORIEN SANDSTONE 4465	USA 73870151						
LOTHLORIEN SANDSTONE 4469	USA 73870155						
LOTHLORIEN SANDSTONE 4470	USA 73870156						
LOTHLORIEN SAVE 4574	USA 73870260						
LOTHLORIEN SAVE 4612	840003130828855						
LOTHLORIEN SAVE 4746	840003130828989						
LOTHLORIEN SAVE 4804	840003130829047						
LOTHLORIEN SPRING 4781-ET	840003130829024						
LOTHLORIEN SPRING 4783-ET	840003130829026						
LOTHLORIEN SPRING 4787-ET	840003130829030						
LOTHLORIEN SPRING 4812	840003130829055						
LOTHLORIEN SPRING 4844	840003130829087						3
LOTHLORIEN SRSIRE 4010-ET	USA 72806489						
LOTHLORIEN STACKED 4198	USA 72806677			C			

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN STACKED 4206	USA 72806685			C			
LOTHLORIEN STACKED 4207	USA 72806686			C			
LOTHLORIEN STACKED 4222	USA 72806701			C			
LOTHLORIEN STACKED 4225	USA 72806704			C			
LOTHLORIEN STACKED 4227	USA 72806706						
LOTHLORIEN STACKED 4228	USA 72806707	C		C			
LOTHLORIEN STACKED 4231	USA 72806710			C			
LOTHLORIEN STACKED 4300	USA 72806779			C			
LOTHLORIEN STACKED 4311	USA 73869997						
LOTHLORIEN STACKED 4312	USA 73869998						
LOTHLORIEN STAMINA 4482	USA 73870168						
LOTHLORIEN STAMINA 4491-TW	USA 73870177						
LOTHLORIEN STAMINA 4492-TW	USA 73870178						
LOTHLORIEN STAMINA 4766	840003130829009						3
LOTHLORIEN STAMINA 4770	840003130829013						
LOTHLORIEN STAMINA 4772	840003130829015						
LOTHLORIEN STAMINA 4776	840003130829019						
LOTHLORIEN STAMINA 4779	840003130829022						
LOTHLORIEN STAMINA 4798	840003130829041						
LOTHLORIEN STAMINA 4802	840003130829045						
LOTHLORIEN STAMINA 4825	840003130829068						
LOTHLORIEN STAMINA 4839	840003130829082			C			
LOTHLORIEN STAMINA 4840	840003130829083						
LOTHLORIEN STAMINA 4841	840003130829084						
LOTHLORIEN STAMINA 4854	840003130829097						
LOTHLORIEN STAMINA 4857	840003130829100						
LOTHLORIEN STAMINA 4859	840003130829102				C		
LOTHLORIEN STAMINA 4861	840003130829104						
LOTHLORIEN STOIC 4416	USA 73870102						
LOTHLORIEN STOIC 4534	USA 73870220						
LOTHLORIEN STOIC 4610	840003130828853						
LOTHLORIEN STOIC 4614	840003130828857						
LOTHLORIEN STOIC 4616	840003130828859						
LOTHLORIEN STOIC 4634	840003130828877						
LOTHLORIEN STOIC 4640	840003130828883						
LOTHLORIEN SUPERMAN 4641	840003130828884						
LOTHLORIEN SUPERMAN 4649	840003130828892						
LOTHLORIEN SUPERMAN 4660	840003130828903						
LOTHLORIEN SUPERSIRE 4158	USA 72806637						
LOTHLORIEN SUPERSIRE 4159	USA 72806638						
LOTHLORIEN SUPERSIRE 4436	USA 73870122						
LOTHLORIEN SUPERSTAR 4647	840003130828890						
LOTHLORIEN SUPERSTAR 4651	840003130828894						
LOTHLORIEN SUPERSTAR 4656	840003130828899						
LOTHLORIEN SUPERSTAR 4657	840003130828900						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

242

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN SUPRSIRE 4070-ET	USA 72806549						
LOTHLORIEN SUPSIRE 4117-ET	USA 72806596						
LOTHLORIEN SUPSIRE 4124-ET	USA 72806603						
LOTHLORIEN SYRACUSE 4472	USA 73870158						
LOTHLORIEN TABASCO 4818	840003130829061						
LOTHLORIEN TABASCO 4819	840003130829062			C			
LOTHLORIEN TABASCO 4822	840003130829065						
LOTHLORIEN TABASCO 4824	840003130829067						3
LOTHLORIEN TABASCO 4827	840003130829070						
LOTHLORIEN TABASCO 4834	840003130829077						
LOTHLORIEN TAMPA 4512	USA 73870198						
LOTHLORIEN TAMPA 4513	USA 73870199						
LOTHLORIEN TAMPA 4551	USA 73870237						
LOTHLORIEN TAMPA 4553	USA 73870239						
LOTHLORIEN TAMPA 4567	USA 73870253						
LOTHLORIEN TAMPA 4578	USA 73870264						
LOTHLORIEN TAMPA 4589	USA 73870275						
LOTHLORIEN TAMPA 4594	USA 73870280						
LOTHLORIEN TAMPA 4661	840003130828904						
LOTHLORIEN TAMPA 4685	840003130828928						
LOTHLORIEN TAMPA 4688	840003130828931						
LOTHLORIEN TAMPA 4692	840003130828935						
LOTHLORIEN TAMPA 4695	840003130828938						
LOTHLORIEN TAMPA 4703	840003130828946						
LOTHLORIEN TAMPA 4705	840003130828948						
LOTHLORIEN TAMPA 4713	840003130828956						
LOTHLORIEN TAMPA 4716	840003130828959						
LOTHLORIEN TAMPA 4718	840003130828961						
LOTHLORIEN TAMPA 4728	840003130828971						
LOTHLORIEN TAMPA 4732	840003130828975						
LOTHLORIEN TAMPA 4737	840003130828980						
LOTHLORIEN TAMPA 4751	840003130828994						
LOTHLORIEN TAMPA 4756	840003130828999						
LOTHLORIEN TAMPA 4759	840003130829002	C					
LOTHLORIEN TAMPA 4760	840003130829003						
LOTHLORIEN TAMPA 4764	840003130829007						
LOTHLORIEN TAMPA 4768	840003130829011						
LOTHLORIEN TAMPA 4784	840003130829027						
LOTHLORIEN TAMPA 4788	840003130829031						
LOTHLORIEN TAMPA 4790	840003130829033						
LOTHLORIEN TAMPA 4799	840003130829042						
LOTHLORIEN TAMPA 4803	840003130829046						
LOTHLORIEN TAMPA 4805	840003130829048						
LOTHLORIEN TAMPA 4807	840003130829050						
LOTHLORIEN TAMRON 4828	840003130829071		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

243

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN TAMRON 4829	840003130829072						
LOTHLORIEN TAMRON 4833	840003130829076		C				
LOTHLORIEN TAMRON 4837	840003130829080		C				
LOTHLORIEN TAMRON 4838	840003130829081						
LOTHLORIEN TARRAGON 4811	840003130829054						
LOTHLORIEN TARRAGON 4820	840003130829063						
LOTHLORIEN TEBO 4496	USA 73870182						
LOTHLORIEN TOPPING 4304	USA 73869990						
LOTHLORIEN TRAK 4543-RED	USA 73870229						
LOTHLORIEN TRIVIA 4439	USA 73870125						
LOTHLORIEN TRIVIA 4443	USA 73870129						
LOTHLORIEN TRIVIA 4451	USA 73870137						
LOTHLORIEN TROY 4471	USA 73870157						
LOTHLORIEN TROY 4486	USA 73870172						
LOTHLORIEN TROY 4608	840003130828851						
LOTHLORIEN TUFFENUFF 4427	USA 73870113						
LOTHLORIEN TUFFENUFF 4428	USA 73870114			C			
LOTHLORIEN TUFFENUFF 4433	USA 73870119			C			
LOTHLORIEN TUFFENUFF 4437	USA 73870123						
LOTHLORIEN TUFFENUFF 4440	USA 73870126						
LOTHLORIEN TWINKIE 4414	USA 73870100						
LOTHLORIEN TWISTER 4852	840003130829095						
LOTHLORIEN TWISTER 4862	840003130829105						
LOTHLORIEN VALENTINE 4118	USA 72806597						
LOTHLORIEN VALENTINE 4146	USA 72806625						
LOTHLORIEN VALENTINE 4160	USA 72806639						
LOTHLORIEN VALENTINE 4185	USA 72806664						
LOTHLORIEN VALENTINE 4418	USA 73870104						
LOTHLORIEN VALENTINE 4432	USA 73870118						
LOTHLORIEN YARDAGE 4769	840003130829012						
LOTHLORIEN YARDAGE 4774-TW	840003130829017			C			
LOTHLORIEN YARDAGE 4775-TW	840003130829018			C			
LOTHLORIEN YARDAGE 4789	840003130829032						
LOTHLORIEN YARDAGE 4795	840003130829038						
LOTHLORIEN YOOHOO 4266	USA 72806745						
LOTHLORIEN YOOHOO 4269	USA 72806748						
LOTHLORIEN YOOHOO 4274	USA 72806753						
LOTHLORIEN YOOHOO 4275	USA 72806754						
LOTHLORIEN YOOHOO 4276	USA 72806755						
LOTHLORIEN YOOHOO 4277	USA 72806756			C			
LOTHLORIEN YOOHOO 4278	USA 72806757						
LOTHLORIEN YOOHOO 4280	USA 72806759						
LOTHLORIEN YOOHOO 4289	USA 72806768						
LOTHLORIEN YOOHOO 4336	USA 73870022						
LOTHLORIEN YOOHOO 4363	USA 73870049						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTHLORIEN YOOHOO 4369	USA 73870055						
LOTHLORIEN YOOHOO 4446	USA 73870132						
LOTHLORIEN YOOHOO 4448	USA 73870134						
LOTHLORIEN YOOHOO 4474	USA 73870160						
LOTHLORIEN YOSEMITE 4558	USA 73870244						
LOTHLORIEN YOUNT 4849	840003130829092						
LOTHLORIEN YOVANI 4166	USA 72806645						
LOTHLORIEN YOVANI 4211	USA 72806690						
LOTHLORIEN YOVANI 4213	USA 72806692						
LOTHLORIEN YOVANI 4218	USA 72806697			C			
LOTHLORIEN YOVANI 4234	USA 72806713						
LOTHLORIEN YOVANI 4243	USA 72806722						
LOTHLORIEN YOVANI 4245	USA 72806724						
LOTHLORIEN YOVANI 4264	USA 72806743				C		
LOTHLORIEN YOVANI 4314-TW	USA 73870000						
LOTHLORIEN YOVANI 4315	USA 73870001		C				
LOTHLORIEN YOVANI 4323	USA 73870009						
LOTHLORIEN YOVANI 4348	USA 73870034						
LOTHLORIEN YOVANI 4361	USA 73870047						
LOTHLORIEN YOVANI 4391	USA 73870077						
LOTHLORIEN YOVANI 4419	USA 73870105						
LOTHLORIEN YUMA 4607	840003130828850						
LOTHLORIEN YUMA 4618	840003130828861						
LOTHLORIEN YUMA 4622	840003130828865						
LOTHLORIEN YUMA 4628	840003130828871						
LOTHLORIEN YUMA 4633	840003130828876						
LOTHLORIEN YUMA 4643	840003130828886						
LOTHLORIEN ZORRO-P 4587	USA 73870273						3
LOTHLORIEN ZORRO-P 4598	USA 73870284						3
LOTHLORIEN ZORRO-P 4599	USA 73870285						
LOTHLORIEN ZORRO-P 4605	840003130828848						3
LOTTA-HILL BOLIVER 3760	USA 62022081						
LOTTA-HILL DDCTIVE 3561-ET	840003126364846						
LOTTA-HILL FACEBOOK 4865	USA 72113665						
LOTTA-HILL FREDDIE 4590-ET	USA 69921224						
LOTTA-HILL FREDDIE 4592-ET	USA 69921226						
LOTTA-HILL FREDDIE 4642	USA 70589445					C	
LOTTA-HILL HEADLINER 4932	USA 72754406						
LOTTA-HILL MAD MAX 1220-ET	840003131975072						
LOTTA-HILL MOGUL 4859 ANNA	USA 72113659						
LOTTA-HILL OBSERVER 4814	USA 72113614						
LOTTA-HILL PLANET 4725	USA 71310585						
LOTTA-HILL PREDEST 1002-ET	840003123752692						
LOTTA-HILL PREDEST 4999-ET	USA 72754473						3
LOTTA-HILL PREDESTINE 1006	840003123752696						3

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

245

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LOTTA-HILL PREDESTINE 5000	USA 72754474					C	
LOTTA-HILL SHOTTLE 4292	USA 66076238						
LOTTA-HILL SSIRE 1236-ET	840003131975088						
LOTTA-HILL SUPERSIRE 1004	840003123752694						
LOTTA-HILL SUPERSIRE 1012	840003123752702						
LOTTA-HILL SUPERSRE 4998-ET	USA 72754472					C	
LOTTOS ATWOOD LAYLA-ET	USA 141750093						1
LOTTOS ATWOOD LEEZA-ET	USA 141750169						
LOTTOS ATWOOD LINORA-ET	USA 141750226						
LOU-IDA ELTON ANN	USA 135133129						3
LOU-MOON CHESAPEAKE TERRA	USA 17211899						
LOU-VIN CLARK JANICE	USA 141710107						
LOU-VIN PROPER CAPER	USA 142370076						
LOU-VIN SHAMPOO CAPRI	USA 140725012						
LOU-VIN SUPER CHEEP	USA 140980978						
LOU-VIN SUPER JIG	USA 141124421						
LOU-VIN YANO CHEESE	USA 142076404						
LOUISELLE TOYSTORY EPONA-ET	CAN 104227146						
LOUISELLE TOYSTORY ESPERANCE	CAN 104227145						
LOVDAL FACEBOOK FUDGE	USA 73629679					C	
LOVELY-LOYD OBSERVER KAY	USA 72914391						
LOVHILL GOLDWYN KATRYSHA	CAN 10854761						
LOVING-MEADOWS GC KROWNE	USA 142712812						
LOVING-MEADOWS KRAYVEN	USA 142713390						
LOW-MILL G BEWILDERED	840003126826423						
LOW-MILL H BARICA-ET	USA 71392999						
LOW-MILL KINGBOY CAIT	840003126826491						
LOW-MILL KINGBOY CAMBRIE	840003126826494						
LOW-MILL MAY DESI-ET	USA 71393015			C			1
LOW-MILL MAY DINA-ET	USA 71392993			C			
LOW-MILL MC CANDACE	840003126826460			C			
LOW-MILL MC CARMELA	840003126826442						
LOW-MILL MC CRIMSON	840003126826456						
LOW-MILL MC DELICATE	840003013220544						
LOW-MILL MONTROSS DAIJA	840003126826493						
LOW-MILL NU CANDY-ET	USA 71392988						
LOW-MILL P DEDICATE-ET	840003013220580						3
LOW-MILL SHAN DUTCHESS-ET	840003013220515						
LOW-MILL SS CARLISA-ET	USA 71393008						
LOW-MILL SS CARMEN-ET	USA 71393005						
LOW-MILL SS CARNATION-ET	USA 71393006			C			
LOWEEN 100-ET	DEU 1503412195					C	
LOWGREY-ML LAUGH-ET	USA 138139218						
LOYAL-VIEW BUCKEYE HOPE	USA 64390792						
LRDK DAMION 6250	USA 66160504						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUC-E-STAR ATWD BENTLEY-ET	USA 71878762			C			
LUC-E-STAR KINGBOY ZIPPER	840003126362472						
LUC-E-STAR MAYFIELD ZADA	USA 72992914						
LUC-E-STAR MCCUTCHEN ZEST	840003126362478						
LUC-E-STAR NUMERO UNO ZOEY	840003126362432						
LUC-E-STAR PACMAN ZOLA	840003126362475						1
LUC-E-STAR TIME ZIP	USA 71878763						
LUCINDA-ET	DEU 813576006						
LUCK-E ABSOLT MYSTIC-RED-ET	USA 69873794						
LUCK-E ABSOLU MS BEAUTY-RED	USA 73278463						
LUCK-E ABSOLUT MAGIC-RED-ET	USA 69873793						
LUCK-E ABSOLUTE ESSENCE	USA 73278243						
LUCK-E ABSOLUTE GOGOGIRL	USA 73278468						
LUCK-E ABSOLUTE KRYSTAL-RED	USA 73278474						
LUCK-E ABSOLUTE TANGO	USA 66662752						3
LUCK-E ACME LILY	USA 73278425						1
LUCK-E ACME MELODY	USA 73278445						1
LUCK-E ACTION AMUNITION-ET	USA 69873805						
LUCK-E ADONIS ESTATIC-RED	USA 73278469		C				
LUCK-E ADONIS KIKIO-ET	USA 73278472						1
LUCK-E ADVENT TINSEL 2-RED	USA 73278453		C				1
LUCK-E ALEXANDER ABRGAIL-ET	USA 69873571		C				
LUCK-E ALTITUD KAROT-RED-TW	USA 73278439						3
LUCK-E ALTITUD KCLICK-RED-TW	USA 73278440						3
LUCK-E ANAHIEM AIRFORCE-ET	USA 73278332						
LUCK-E ANAHIEM ARCADIA-ET	USA 73278331						
LUCK-E ANAHIEM AZURE	USA 73278323						
LUCK-E ARMANI BOBSLED	USA 73278257						1
LUCK-E ARMANI KRYSTAL	USA 73278187					C	1
LUCK-E ARUBA ANGEL	840003135199796						
LUCK-E ATLANTA KEGGER-ET	USA 73278328						
LUCK-E ATLANTA KEKOA-ET	USA 73278326						
LUCK-E ATLANTA KOSMIC-ET	USA 73278321						
LUCK-E ATLANTA KRIMSON	USA 73278449						
LUCK-E ATWOOD AMMO	USA 73278424						
LUCK-E ATWOOD ANGEL	USA 66662773						
LUCK-E ATWOOD KALINDA-ET	USA 73278461						
LUCK-E ATWOOD KAREOKE-ET	USA 73278452						
LUCK-E ATWOOD KATEASHA-ET	USA 73278455						
LUCK-E ATWOOD KNOCKOUT-ET	USA 73278457						
LUCK-E ATWOOD PRISM	USA 66662814						
LUCK-E AWESOME AAKA-ET	USA 73278437		C				
LUCK-E AWESOME ADVENTURE-ET	USA 73278432						
LUCK-E AWESOME AIRTIME-ET	USA 73278433						
LUCK-E AWESOME ALABAMA-ET	USA 73278431						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

247

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCK-E AWESOME ALANNAH-ETS	USA 73278435						
LUCK-E AWESOME ALISHA-ET	USA 73278430						
LUCK-E AWESOME AMNESIA-ET	USA 73278420						
LUCK-E AWESOME ANJA-ET	USA 73278434						
LUCK-E AWESOME APACHE-ET	USA 73278414						
LUCK-E AWESOME APETITE-ET	USA 73278415						
LUCK-E AWESOME ASHLING-ETS	USA 73278436						
LUCK-E AWESOME AUDIO-ET	USA 73278411						
LUCK-E AWESOME AVENA-ET	USA 73278416						
LUCK-E AWESOME AVENGER-ET	USA 73278413		C				
LUCK-E AWESOME AWARD-ET	USA 73278412		C				
LUCK-E AWESOME AYAPANA-ET	USA 73278409		C				
LUCK-E AWESOME AYTHYA-ET	USA 73278410		C				
LUCK-E AWESOME AZUZU-ET	USA 73278419						
LUCK-E AWESOME FANTASY-RED	USA 73278438						
LUCK-E AWESOME JACUZZI-RED	840003135199797						1
LUCK-E AWESOME JAZZ-RED-ET	840003135199774						1
LUCK-E AWESOME JEWEL-RED-ET	840003135199775						1
LUCK-E AWESOME JIVE-RED-ET	840003135199773						1
LUCK-E AWESOME JUICY-RED-ET	840003135199779						1
LUCK-E AWESOME KISS-RED-ET	USA 73278442						
LUCK-E AWESOME KITTY	USA 73278397						
LUCK-E AWESOME KLEVER-RED	USA 73278398						
LUCK-E AWESOME KOOL-RED-ET	USA 73278441						
LUCK-E AWESOME MAGIC	USA 73278426						
LUCK-E BEEMER ALEXANDRA-ET	USA 73278482						
LUCK-E BEEMER AMBITIOUS-ET	USA 73278481						
LUCK-E BEEMER ANGELINA-ET	840003135199772						
LUCK-E BEEMER BLAZE-TW	840003135199785						
LUCK-E BEEMER KALUKILAKA-ET	840003135199782						
LUCK-E BEEMER KASIENKA-ET	840003135199776						
LUCK-E BEEMER KOKO	USA 73278466						
LUCK-E BEEMER KRAZE	USA 73278465						
LUCK-E BLITZ AUSTRALIA-ET	USA 134315038						
LUCK-E BOLTON AKASHA	USA 64844880						1
LUCK-E BRADY AIGRETTE-ET	USA 73278408						
LUCK-E BRADY ARMYGRL-ET	USA 73278407						
LUCK-E BRADY BUSTY	USA 73278350						
LUCK-E BRAXTON ARUBA-ET	USA 66662822						
LUCK-E BRAXTON KAMEKO-ET	USA 66662797						
LUCK-E BRAXTON KUMIKO	USA 66662801						
LUCK-E BRAXTON MAEVE	USA 66662798						
LUCK-E BROKAW ALLEY	USA 73278423						
LUCK-E BYWAY ABRACABANG-ETS	840003135199791						
LUCK-E BYWAY ABRACABING-ETS	840003135199790						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

248

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCK-E BYWAY ABRACABOO-ET	840003135199792						
LUCK-E BYWAY ABRACABOOM-ET	840003135199787						
LUCK-E BYWAY ABRACADABRA-ET	840003135199786						
LUCK-E BYWAY ABRACATOO-ET	840003135199793						
LUCK-E BYWAY ABRACAZAM-ET	840003135199789						
LUCK-E BYWAY ABRACAZOOM-ET	840003135199788						
LUCK-E BYWAY KUKILAK-ET	840003135199794						
LUCK-E BYWAY KUKILUKI-ET	840003135199795						
LUCK-E CHAMP-P KRITTER-ET	USA 73278406					C	1
LUCK-E CONTENDER KRICKET-ET	USA 73278222						
LUCK-E DEFI KACHINA-RED-ET	USA 73278473						
LUCK-E DEFI KALIKA-RED-ET	USA 73278476						
LUCK-E DEFIANT AARDVARK	USA 73278428						
LUCK-E DEFIANT AKUKA-ET	USA 73278395						
LUCK-E DEFIANT AVAVA-ET	USA 73278396						
LUCK-E DEFIANT BADABOOM	USA 73278404						
LUCK-E DEFIANT BLESSING	USA 73278429						
LUCK-E DEFIANT JOJO-RED	USA 73278443						
LUCK-E DEFIANT KARISMA-ET	USA 73278470						
LUCK-E DEFIANT KASPER-ET	USA 73278475						
LUCK-E DEFIANTBIG KAHUNA-ET	USA 73278479						
LUCK-E DEMPSEY SUGAR	USA 73278467						3
LUCK-E DURBIN ALLIE-ET	USA 73278317					C	
LUCK-E DURBIN ASTAR-ET	USA 73278315					C	
LUCK-E DURBIN TEMPTING	USA 73278427						
LUCK-E DURBIN TRAXTON	USA 73278421						
LUCK-E DURHAM ABELLA-ET	USA 69873702						3
LUCK-E DURHAM TOKEN	USA 64844817						
LUCK-E ELUDE DIVA	USA 73278448						
LUCK-E ELUDE JAYLA	USA 73278446						
LUCK-E ELUDE KIPPER	USA 73278447						
LUCK-E ERASER-P KAMOTO	USA 73278351						
LUCK-E FEVER ADA	USA 69873721						
LUCK-E FEVER MINNIE	USA 69873697						
LUCK-E FINAL CUT SADDIE	USA 69873598						3
LUCK-E GOLD KANDIE CANE-ET	USA 73278464						
LUCK-E GOLDEN ARROW-ET	USA 73278294						
LUCK-E GOLDEN DREAMS KLIMAX	840003135199798						
LUCK-E GOLDWYN AREEKA-ET	USA 73278293						
LUCK-E GOLDWYN AURORA-ET	USA 73278295						1
LUCK-E GUTHRIE ANISA	USA 69873672						
LUCK-E GUTHRIE KLEOPATRA	USA 69873649					C	
LUCK-E INTERGAL ADORNA	USA 73278383			C			
LUCK-E INTERGAL BANANA	USA 73278399			C			
LUCK-E INTERGAL JESSIE-RED	USA 73278471			C			1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

249

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCK-E JASPER SHELBY	USA 64844972						
LUCK-E JED BIKINI-ET	USA 131047987						
LUCK-E JORDAN AQUA-ET	USA 69873622						
LUCK-E KINGBOY AMYLEE	USA 73278462						
LUCK-E KINGBOY ANGIE	USA 73278456						
LUCK-E KINGBOY ATTY	USA 73278454						
LUCK-E LADD JESS-RED-ET	USA 73278226		C				3
LUCK-E LADD JUBILEE-RED-ET	USA 69873754						4
LUCK-E LADD-P ALASKA-RED	USA 69873693						1
LUCK-E LADD-P ALIZA	USA 69873690						1
LUCK-E LADD-P JAMACA-ET	USA 69873789		C				3
LUCK-E LADD-P JESSIE-ET	USA 69873790						4
LUCK-E LADD-P TREND-RED	USA 69873796						
LUCK-E LARSON KENDRA	USA 69873644		C				
LUCK-E LARSON MARTIAN	USA 69873638						
LUCK-E LINJET AMISHA-ET	USA 64844867						
LUCK-E LP KRYPTONITE-RED-ET	USA 69873819						
LUCK-E MCGUCCI AFRO-RED-ET	USA 73278355						
LUCK-E MCGUCCI ALOHA-RED-ET	USA 73278354						
LUCK-E MCGUCCI ANEIKA-ET	USA 73278353						
LUCK-E MCGUCCI ARTIC-ET	USA 73278356						
LUCK-E MITEY P KRAYOLA-RED	USA 69873609						
LUCK-E MOSES KATIANA-RED	USA 73278444						
LUCK-E OKALIBER ASHLO	USA 73278418		C				
LUCK-E OKALIF KARAT-RED-ET	USA 73278460						
LUCK-E OKALIF KARMA-RED-ET	USA 73278451						1
LUCK-E OKALIF KIKORA-RED-ET	USA 73278450						
LUCK-E OKALIF KINKY-RED-ET	USA 73278458						
LUCK-E OKALIF KLIMAX-RED-ET	USA 73278459						
LUCK-E OLYMPIAN ACE-RED-ET	USA 73278341						
LUCK-E OLYMPIAN ACTION-ET	USA 73278346						
LUCK-E OLYMPIAN ADVICE-ET	USA 73278342						
LUCK-E OLYMPIAN AEREO-ET	USA 73278337						
LUCK-E OLYMPIAN AGAME-ET	USA 73278347						
LUCK-E OLYMPIAN AGATHA-ET	USA 73278338						
LUCK-E OLYMPIAN ALLEGRA-ET	USA 73278339						
LUCK-E OLYMPIAN ALYSSA-ET	USA 73278335						
LUCK-E OLYMPIAN AMAZE-ET	USA 73278344						
LUCK-E OLYMPIAN AREEBA-ET	USA 73278349						
LUCK-E OLYMPIAN ARIANNA-ET	USA 73278348						
LUCK-E OLYMPIAN ASALIA-ETS	USA 73278345						
LUCK-E OLYMPIAN ASHLYN-ET	USA 73278334						
LUCK-E OLYMPIAN ASTRID-ET	USA 73278336						
LUCK-E OLYMPIAN ASTROID-ET	USA 73278329						
LUCK-E OLYMPIAN ATHLETE-RED	USA 73278322						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

250

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCK-E OLYMPIAN AVA-RED-ET	USA 73278340						
LUCK-E OLYMPIAN AVALON-ET	USA 73278308						
LUCK-E OLYMPIAN KIKO	USA 73278325		C				
LUCK-E OLYMPIAN KIZZY	USA 73278319						
LUCK-E OLYMPIN ANJELITA-ETS	USA 73278343						
LUCK-E PALERMO BONZA-ET	USA 69873818	C					
LUCK-E PERSEUS KOMET	USA 69873707						3
LUCK-E POWERBALL ABESSA-ET	USA 73278375						
LUCK-E POWERBALL ABILENE-ET	USA 73278376						
LUCK-E POWERBALL ACACIA-ET	USA 73278377						
LUCK-E POWERBALL ACADEMY-ET	USA 73278380						
LUCK-E POWERBALL ACTIVE-ET	USA 73278374						
LUCK-E POWERBALL ADDICT-ET	USA 73278327						
LUCK-E POWERBALL ALIMONY-ET	USA 73278378						
LUCK-E POWERBALL ARUGALA-ET	USA 73278372						
LUCK-E POWERBALL ASHANTI-ET	USA 73278330						
LUCK-E POWERBALL ASHTON-ET	USA 73278379						
LUCK-E POWERBALL AUGUST-ET	USA 73278373						
LUCK-E RDBURST KANGAROO-RED	USA 69873704						1
LUCK-E REDBRST KELBY-RED-ET	USA 73278480						1
LUCK-E REDBURST THUNDER-RED	USA 69873701		C				3
LUCK-E SHOTTLE TIKA	USA 64844868					C	
LUCK-E SHOTTLE TRINITY-ET	USA 66662772						
LUCK-E TALENT STORMY	USA 64844917						3
LUCK-E TIME ARTIC-ET	USA 66662731						
LUCK-E XMAS KANDIE-RED-ET	USA 73278478						
LUCK-E ZENITH ANGELA	USA 65249292						
LUCK-E-CHARM AIRLIFT 168	USA 69414554			C			
LUCK-E-CHARM ATWOOD 109	USA 71494410						
LUCK-E-CHARM ATWOOD 139	USA 71494440						
LUCK-E-CHARM ATWOOD BETTY	USA 71494406						
LUCK-E-CHARM BRETT 113	USA 71494414						
LUCK-E-CHARM DEBONAIR 169	USA 69414555						
LUCK-E-CHARM ELEVATION 126	USA 71494427						
LUCK-E-CHARM GABOR 64	USA 71494365						
LUCK-E-CHARM GAMBLER GABBY	840003135794076						
LUCK-E-CHARM GREGARIS GRETA	840003135794072						
LUCK-E-CHARM GREGARS OMANDY	USA 69414563						
LUCK-E-CHARM HERO 128	USA 71494429						
LUCK-E-CHARM HERO 157	USA 69414543						
LUCK-E-CHARM M-O-M2 112	USA 71494413						
LUCK-E-CHARM MARTY 119-RED	USA 71494420						
LUCK-E-CHARM MARTY MIRACLE	USA 71494399	C					
LUCK-E-CHARM MCCUTCHEN 116	USA 71494417						
LUCK-E-CHARM MCCUTCHEN 118	USA 71494419						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

251

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCK-E-CHARM MOGUL RITZ	840003135794079						1
LUCK-E-CHARM NUMRO UNO NINA	840003135794075						
LUCK-E-CHARM PLANET 59	USA 71494360			C			
LUCK-E-CHARM PREDES DESTINA	840003135794077						3
LUCK-E-CHARM S-SHOT KATE-ET	USA 69414547						
LUCK-E-CHARM S-SHOT LORI-ET	USA 69414546	C					
LUCK-E-CHARM SHOTTLE 63	USA 71494364			C		C	
LUCK-E-CHARM SPRSH MERCY-ET	840003135794074	C					
LUCK-E-CHARM SPRSHOT AMY-ET	USA 69414549						
LUCK-E-CHARM SSHOT KAREN-ET	USA 71494450	C					
LUCK-E-CHARM SSHOT MISSY-ET	USA 69414561	C					
LUCK-E-CHARM SSHT AMANDA-ET	USA 69414541	C					
LUCK-E-CHARM SUPERSIRE 101	USA 71494402						
LUCK-E-CHARM SUPERSIRE 167	USA 69414553						
LUCK-E-CHARM SUPRSHOT STARR	840003135794078						
LUCK-E-JK ADVENT THEORY-ET	USA 64844999						
LUCKY HOLSTEINS ROSALY	NLD 498844649				C		
LUCKY-BUTTKE AIRNET ZENA	USA 70945750						
LUCKY-BUTTKE ATWOOD EVIAN	840003012506841						
LUCKY-BUTTKE ATWOOD GREAT	840003012506379						1
LUCKY-BUTTKE BERK SISSY-RED	USA 69826468						1
LUCKY-BUTTKE CAMI-ET	USA 66605649						
LUCKY-BUTTKE CAMILLA-ET	USA 66605347						
LUCKY-BUTTKE CASHMERE-ET	USA 66605385					C	
LUCKY-BUTTKE CHRISTINA-ET	USA 66605343						
LUCKY-BUTTKE DURHAM LONA	USA 134857921						
LUCKY-BUTTKE MANAT FRUTO-ET	USA 60802860						
LUCKY-BUTTKE OBSERVER PEGGY	USA 71436132						
LUCKY-BUTTKE OBSERVER SILK	USA 71436133						
LUCKY-BUTTKE PLAN CHET 1008	USA 71437290						
LUCKY-BUTTKE PLANET GELATIN	USA 66605395						
LUCKY-BUTTKE PLANET TILLY	USA 56532886						
LUCKY-BUTTKE PLNET CARLY-ET	USA 66605648					C	
LUCKY-BUTTKE RUDOLPH SHAYLA	USA 72588353		C				3
LUCKY-BUTTKE SHAMRCK JAMMIN	840003012506025						1
LUCKY-BUTTKE SHOT SKYLIGHT	840003012506157	C				C	
LUCKY-BUTTKE SHOTGLASS ZOEY	USA 72470722						
LUCKY-BUTTKE STORMATIC 6140	USA 78212115						
LUCKY-BUTTKE WBR RELIVE-ET	USA 142527160						1
LUCKY-BUTTKE WBROK RELAY-ET	USA 142527179						1
LUCKY-LYLAND BLITZ HOPE-ET	USA 140015049						
LUCKY-POET AD OF WILLOLEA	USA 141926715						1
LUCKY-POET BUCKEYE SALLY-ET	USA 138726324						
LUCKY-POET GOLDWYN CUTIE-ET	USA 139291157						1
LUCKY-POET GOLDYN CUTIE	USA 142208021						1

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

252

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUCKY-POET JORDAN CLEO-ET	USA 61957987						
LUCKY-POET MACHO CRYSTAL-ET	USA 139337271						
LUDDY DUSK 5335-ET	USA 71428255						
LUDDY LONNA-ET	USA 141794750						
LUDDY MINT-ET	USA 141871958						1
LUDWIGS-DG BLAC LICORICE-ET	USA 141426514						
LUDWIGS-DG EMERYS ERA-ET	USA 141841135			C			
LUDWIGS-DG EMERYS EVA-ET	USA 141841126						
LUDWIGS-DG EMERYS EVE-ET	USA 141841144			C			
LUDWIGS-DG FRD LATTE-ET	USA 141077242						
LUDWIGS-DG FRD LOUISIANA-ET	USA 141426112						
LUDWIGS-DG FREDDIE LOL-ET	USA 141426523						
LUDWIGS-DG G LYNETTE-ET	USA 141209542						
LUDWIGS-DG GERRD LYNDSEY-ET	USA 141263762						
LUDWIGS-DG GOCHIP LOWLY	USA 142128008						
LUDWIGS-DG GOLD ANNE-ET	USA 70483230						1
LUDWIGS-DG GOLDWYN ELITE-ET	USA 142230239						1
LUDWIGS-DG GOLDWYN EMBER-ET	USA 140067710						
LUDWIGS-DG GOLDWYN PATSY-ET	USA 141076942						3
LUDWIGS-DG LA BOMBA-ET	USA 141020437						
LUDWIGS-DG LANCOME-ET	USA 141077327						
LUDWIGS-DG LAUGHTER-ET	USA 140934061						
LUDWIGS-DG LAVENDAR-ET	USA 140934052						
LUDWIGS-DG LEISURETIME-ET	USA 141077336						
LUDWIGS-DG LIBERTY-ET	USA 141020389						
LUDWIGS-DG LIMITLESS-ET	USA 141020361						
LUDWIGS-DG LIQUEUR-ET	USA 141020455						
LUDWIGS-DG LIT EDY-ET	USA 72529481						
LUDWIGS-DG LONESTAR-ET	USA 140934043						
LUDWIGS-DG LOVELY-ET	USA 141020370						
LUDWIGS-DG MOGUL LANA	USA 142393998						
LUDWIGS-DG NUMBERO LUCY-ET	USA 142193981						
LUDWIGS-DG OBSERVER LISA-ET	USA 141175164						
LUDWIGS-DG OBSRVR LEONA-ET	USA 141209579						
LUDWIGS-DG OBSV LUXURY-ET	USA 141263753						
LUDWIGS-DG SHAMROCK LATOYA	840003012995085						
LUDWIGS-DG SHTL PRIMROSE-ET	USA 139964639						
LUDWIGS-DG SHTL PRINCESS-ET	USA 139964732	C					
LUDWIGS-DG SPRLRG LUANNE-ET	USA 142128129						
LUDWIGS-DG SS CALYPSO	840003012995084						
LUDWIGS-DG SUPER LADY-ET	USA 140892062						
LUDWIGS-DG SUPER LEXUS-ET	USA 140934089						
LUDWIGS-DG SUPER LILLY-ET	USA 140909029						
LUDWIGS-DG SUPERSIRE LOTTO	840003012995079						
LUDWIGS-DG SUPR LUSCIOUS-ET	USA 140934070						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

253

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUIVU DOMAIN TWILIGHT	USA 64993404						
LUIVU LARGE DANA	USA 64993410						
LUIVU LARGE SKYLA	USA 71686575						
LUIVU RON ROSEMARY-RED	USA 71686558						1
LUNCREST AFTSCK ARTFUL-1683	840003124929802					C	
LUNCREST ALEX WICKED-1289	USA 66854232						1
LUNCREST ALEXANDR MONK-1359	USA 69832400						
LUNCREST ASHLAR POLLY-1275	USA 66854218	C					
LUNCREST AT MISSIN-1544-ET	840003012443971						
LUNCREST ATHLTE PRIMO-1703	840003130324656						
LUNCREST ATLANTIC BOSS-1574	840003012444001						
LUNCREST ATWD MAINE-1523-ET	USA 71743050						
LUNCREST ATWD MISSU-1543-ET	840003012443970						
LUNCREST ATWOOD 1491	USA 71743018						
LUNCREST BALTIMOR KAY-1515	USA 71743042					C	
LUNCREST BALTIMOR MALT-1395	USA 69832436					C	
LUNCREST BANDO CORA-1531	USA 71743058						
LUNCREST BANDO MARTY-1525	USA 71743052						
LUNCREST BEAU MAGS-1474	USA 71743001	C					
LUNCREST BKEYE MARGE CRI-ET	USA 63285416	C					
LUNCREST BOB MILKEM-1576-ET	840003012444003					C	
LUNCREST BOMBERO DIZZY-1676	840003124929795						
LUNCREST BOMBERO ROSE-1669	840003124929788						
LUNCREST BOOKEEPER MOK-1664	840003124929783						
LUNCREST BOOKEPR MYOWN-1680	840003124929799						
LUNCREST BOYBOY LISA-1476	USA 71743003						
LUNCREST BR BODELICOUS-1707	840003130324660						3
LUNCREST BRADNICK KAY-1696	840003130324649						3
LUNCREST BRAZLE BAZZLE-1732	840003130324685						1
LUNCREST BXTN REGAL-1660-ET	840003124929779						
LUNCREST BYOB CATIE-1485-ET	USA 71743012					C	
LUNCREST CART WHEEL-1715	840003130324668						
LUNCREST CARTER MARTER-1729	840003130324682						1
LUNCREST CARTER ROSIE-1711	840003130324664						
LUNCREST CASH MONEY-1608	840003012444035						1
LUNCREST CHELIOS KAY-1587	840003012444014						
LUNCREST CHEMIST ABE-1640	840003124929759						
LUNCREST CHEMST MAIZE-1623	840003124929742	C					
LUNCREST CHOPS HAZ-1687	840003130324640						
LUNCREST CHOPS MAMMY-1667	840003124929786						
LUNCREST CHUCKI MAYNOT-1617	840003124929736						
LUNCREST CHUCKIE MOUSE-1603	840003012444030						
LUNCREST CINAMN-1705-ET	840003130324658						
LUNCREST CLARK AMAZ-1629	840003124929748						
LUNCREST CLARK KAY-1685	840003124929804						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

254

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUNCREST CLARK MAP-1626	840003124929745		C				
LUNCREST CLARK MURPH-1618	840003124929737						
LUNCREST CMRN MILCH-1465-ET	USA 71742992						
LUNCREST CMRN MURMR-1466-ET	USA 71742993						
LUNCREST CNTST MISMTCH-1739	840003130324692						3
LUNCREST CONTRST MATCH-1682	840003124929801						
LUNCREST DAY BAY-1537	840003012443964						
LUNCREST DAY ROSE-1538	840003012443965						
LUNCREST DEANN DOLL-1287	USA 66854230						1
LUNCREST DECLN HOLYCOW-1701	840003130324654						
LUNCREST DETROIT 1322 1545	840003012443972						
LUNCREST DETROIT BELL-1541	840003012443968						
LUNCREST DGNHRT HEATHR-1706	840003130324659						
LUNCREST DNTELLO MELLO-1577	840003012444004						
LUNCREST DOMAIN WHIMSY-1379	USA 69832420						
LUNCREST DON JUAN KID-1479	USA 71743006						
LUNCREST DON JUAN POET-1482	USA 71743009	C					
LUNCREST DOORMAN MAPLE-1697	840003130324650					C	
LUNCREST DOORMN MILLYJ-1699	840003130324652					C	
LUNCREST DORCY MORCY-1350	USA 69011144						
LUNCREST DRGNHRT MIGTY-1727	840003130324680						
LUNCREST DUNDEE STAR-1548	840003012443975						
LUNCREST EFECTIV JELLO-1549	840003012443976						
LUNCREST ELMER DREAM-1584	840003012444011						
LUNCREST ELMR MAYBELLE-1586	840003012444013			C		C	
LUNCREST EMERALD MOOR-1492	USA 71743019						
LUNCREST EMERALD MULLA-1519	USA 71743046						
LUNCREST EPIC MATCH-1493-ET	USA 71743020					C	
LUNCREST EPIC MOVE-1477-ET	USA 71743004						
LUNCREST FAVRE CRYSTAL-1735	840003130324688						
LUNCREST FAVRE JEM-1688	840003130324641						
LUNCREST FAVRE LORIANN 1650	840003124929769						
LUNCREST FAVRE MADDY-1648	840003124929767						
LUNCREST FAVRE MAVRE-1643	840003124929762						
LUNCREST FEVER BDACOUS 1589	840003012444016		C				
LUNCREST FEVER HEATHER-1583	840003012444010						
LUNCREST FEVER MEMIE-1499	USA 71743026						
LUNCREST GAMBLER 1303 1726	840003130324679						
LUNCREST GAMBLER ACE-1691	840003130324644						
LUNCREST GAMBLR MAMBLE-1672	840003124929791						
LUNCREST GDRMS MUSTBE-1710	840003130324663						
LUNCREST GDSN WALOP-1469-ET	USA 71742996						
LUNCREST GDSN WANDR-1470-ET	USA 71742997						
LUNCREST GINO MEMORY-1698	840003130324651						
LUNCREST GIVESME FEVER-1509	USA 71743036						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

255

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUNCREST GLDWYN MEI-1514-ET	USA 71743041						
LUNCREST GOLD CHIP CAM-1462	USA 71742989		C				
LUNCREST GRNDAY MAYDAY-1637	840003124929756						
LUNCREST GRNDY GEORGIA-1633	840003124929752			C		C	
LUNCREST GRNDY HEATHER-1724	840003130324677						
LUNCREST HERO 1490	USA 71743017						
LUNCREST HERO MAYAPPLE-1502	USA 71743029						
LUNCREST HILL DILLY-1524	USA 71743051						
LUNCREST HILL KAY-1571	840003012443998						
LUNCREST HILL MAYBE-1518	USA 71743045						
LUNCREST IMPRESS ME-1624	840003124929743					C	
LUNCREST IMPRSS MOCKN-1638	840003124929757						
LUNCREST IOTA 1273 1647	840003124929766						1
LUNCREST IOTA MIX-1642	840003124929761						
LUNCREST IOTA STAR-1659	840003124929778						
LUNCREST JABIR 1354-1599	840003012444026						
LUNCREST KUHN BREEZE-1679	840003124929798						
LUNCREST LANDON KAY-1611	840003012444038						
LUNCREST LARSON FLO-1498	USA 71743025		C			C	
LUNCREST LATIMOR 1355 1578	840003012444005						1
LUNCREST LATIMOR GLEE-1534	USA 71743061			C		C	1
LUNCREST LATIMOR HOLLY-1532	USA 71743059						1
LUNCREST LATIMOR JET-1597	840003012444024		C				3
LUNCREST LATIMOR MACR-1595	840003012444022		C				
LUNCREST LATIMOR MILLY-1600	840003012444027						3
LUNCREST LATIMR MICKEY-1536	USA 71743063						1
LUNCREST LEAP MEAP-1628	840003124929747	C	C				
LUNCREST LEX LIGHTSOUT-1594	840003012444021						
LUNCREST LEXICON KAY-1582	840003012444009						
LUNCREST LGOLD BACKUP-1620	840003124929739						3
LUNCREST LGOLD BREEZE-1625	840003124929744						
LUNCREST LIESL 1287 1429	USA 70715513						
LUNCREST LIESL MIESL-1376	USA 69832417						
LUNCREST LINDY HEATHER-1704	840003130324657						
LUNCREST LITHIUM MITH-1540	840003012443967						
LUNCREST LONG-OVERDUE-1439	USA 70715523						3
LUNCREST LQD GOLD BOLD-1630	840003124929749						
LUNCREST LTH MITHIUM-1547	840003012443974						
LUNCREST LTHRTY MBA-1495-ET	USA 71743022						
LUNCREST LTHRTY MIS-1425-ET	USA 70715509						
LUNCREST LTHRTY MIZ-1423-ET	USA 70715507						1
LUNCREST MACHREE-1093-ET	USA 62480189						
LUNCREST MAGICAL FEVER-1512	USA 71743039						
LUNCREST MANNIA JOSE-1675	840003124929794						
LUNCREST MANNIA MAKER-1677	840003124929796						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

256

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUNCREST MASCLSE SHINE-1738	840003130324691						
LUNCREST MCCUTCHEN ROZ-1655	840003124929774						
LUNCREST MCCUTCHEN STR-1663	840003124929782						
LUNCREST MCCUTHN DILLY-1689	840003130324642						
LUNCREST MCTHN BETONME-1535	USA 71743062						
LUNCREST MICK MOUSE-1464	USA 71742991						
LUNCREST MILARD MARALE-1494	USA 71743021					C	
LUNCREST MILES AHEAD-1609	840003012444036						
LUNCREST MILES ROSE-1616	840003124929735						
LUNCREST MILLARD STAR-1475	USA 71743002						
LUNCREST MISBEHAVEN-1224-ET	USA 65496066						
LUNCREST MISCHIEVUS-1226-ET	USA 65496068						
LUNCREST MISS MARSH-1099-ET	USA 62480195						
LUNCREST MNREAL EMPRES-1508	USA 71743035						
LUNCREST MNREAL MAT-1505-TW	USA 71743032						
LUNCREST MNREAL MIT-1506-TW	USA 71743033						
LUNCREST MOGUL MAGNET-1728	840003130324681						
LUNCREST MONREAL MICH-1516	USA 71743043						
LUNCREST MONREL MADGLD-1496	USA 71743023						
LUNCREST MONREL MADMAC-1497	USA 71743024						
LUNCREST MSC WHYNOT-1585-ET	840003012444012					C	
LUNCREST MSCLSE HEATHR-1742	840003130324695						
LUNCREST MSCLSE WIZ-1542-ET	840003012443969						
LUNCREST OBSERVER 1384 1613	840003124929732						
LUNCREST OBSERVER MAC-1612	840003124929731						
LUNCREST OLEGANT BOLD-1503	USA 71743030						
LUNCREST OLEGANT MOZZ-1504	USA 71743031	C					
LUNCREST OLEGANT WENDY-1517	USA 71743044			C			
LUNCREST OLEGNT BTCHEN-1500	USA 71743027						
LUNCREST OLEGNT HEATHR-1487	USA 71743014						
LUNCREST OLEGNT MULLEN-1489	USA 71743016					C	
LUNCREST OTSD MAC-927-ET	USA 61027363	C	C				3
LUNCREST PALERMO MYTH-1527	USA 71743054	C					
LUNCREST PARTHENON BET-1533	USA 71743060						
LUNCREST PAYTON HOOP-1636	840003124929755						
LUNCREST PETRONE DOLL-1619	840003124929738						
LUNCREST PILOT BRIGHT-1621	840003124929740						
LUNCREST PLNET MOON-1246-ET	USA 65496088						
LUNCREST PLT BONITA-1278-ET	USA 66854221						
LUNCREST PRESCENT TESS-1614	840003124929733						
LUNCREST PRTHNON PRIME-1526	USA 71743053						
LUNCREST PRTHON HEATHR-1530	USA 71743057						
LUNCREST PYTN MOCKNJAY-1639	840003124929758					C	
LUNCREST RACER METAL-1641	840003124929760						
LUNCREST RACER SPRUCE-1723	840003130324676						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

257

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUNCREST REGINA FOO-1653-TW	840003124929772	C					
LUNCREST REGINA FUM-1654-TW	840003124929773						
LUNCREST REGINLD BRITE-1665	840003124929784						
LUNCREST RNGDE 2FER-1740-TW	840003130324693						
LUNCREST RNGDE ME2-1741-TW	840003130324694						
LUNCREST ROLAND ROZE-1414	USA 70715498						
LUNCREST RSTER ACE-1737-ET	840003130324690						1
LUNCREST RSTER ADEL-1736-ET	840003130324689						1
LUNCREST SABATHIA MABA-1649	840003124929768						3
LUNCREST SABATHIA MAS-1673	840003124929792						
LUNCREST SABATHIA MATH-1656	840003124929775						
LUNCREST SALOON ABE-1593	840003012444020						
LUNCREST SALOON LINDA-1598	840003012444025						
LUNCREST SALOON MALOON-1602	840003012444029						
LUNCREST SALOON MCARDI-1646	840003124929765						
LUNCREST SAMMY 1460-1652	840003124929771						1
LUNCREST SAMMY KATE-1668	840003124929787						
LUNCREST SAMMY MONTANA-1666	840003124929785						3
LUNCREST SHTGLSS MIGHT-1693	840003130324646						
LUNCREST SHTL MADELINE-1223	USA 65496065					C	
LUNCREST SHTL MILLA-1510-ET	USA 71743037						
LUNCREST SHTL MIN-1511-ET	USA 71743038					C	
LUNCREST SID BID-1716	840003130324669						
LUNCREST SID MID-1463	USA 71742990						
LUNCREST SID MOSAIC-1472	USA 71742999						1
LUNCREST SILVER STAR-1734	840003130324687						
LUNCREST SLVR MERCEDES-1743	840003130324696						
LUNCREST SNCHZ BDACOUS-1403	USA 70715487		C				
LUNCREST SSIRE MOLLY-1606	840003012444033						
LUNCREST SUPR MILKY-1341-ET	USA 69011135					C	
LUNCREST TANGO MARIE-1607	840003012444034						1
LUNCREST UNO AMBER-1622	840003124929741						
LUNCREST WEBE DRMNG-1714-ET	840003130324667						
LUNCREST WEDDNG DRM-1713-ET	840003130324666					C	
LUNCREST WISKY DRMS-1709-ET	840003130324662					C	
LUNCREST WNDBRK RAE-1657-ET	840003124929776						1
LUNCREST WNDHAMR MAPLE-1681	840003124929800						
LUNCREST WNDHMER MIGHT-1501	USA 71743028						
LUNCREST WNDHMR HEATHR-1507	USA 71743034						1
LUNCREST WNDHMR MARTY-1684	840003124929803						
LUNCREST WNDHMR MILLI-1700	840003130324653						1
LUNCREST WNDHMR MURIA-1690	840003130324643						4
LUNCREST ZION SPRINKLE-1539	840003012443966						
LUNCREST ZNTH KISS CRI-ET	USA 63285413						
LUNCREST-BR MILES LILY-1605	840003012444032						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

258

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LUNCREST-WR ABILENE-1522-ET	USA 71743049						
LUNCREST-WR ATHENS-1658-ET	840003124929777						
LUNCREST-WR AUGUSTA-1662-ET	840003124929781						
LUNCREST-WR AUSTIN-1520-ET	USA 71743047						
LUNDEGAARD G W ATWOOD FAY	840003127402760						
LUNDEGAARD G W ATWOOD JESSE	840003010440837						
LUNDEGAARD SANCHEZ ALEXA	840003010440838						
LUNDEGAARD SANCHEZ AMBER	840003010440839						
LUPA 9	ITA 4990134992						
LUTZ-BROOKVIEW BEAUTY I-ET	USA 133389627						
LUTZ-BROOKVIEW BONNET B-ET	USA 140725704			C			
LUTZ-BROOKVIEW DIANNA	USA 140940288						
LUTZ-BROOKVIEW EBONY-ET	USA 17303215						
LUTZ-BROOKVIEW FAWN-ET	USA 17163475						
LUTZ-BROOKVIEW FIFI-ET	USA 17163459						
LUTZ-BROOKVIEW NORA P	USA 142128802						
LUTZ-BROOKVIEW S-SIRE 122	USA 142717871			C			
LUTZ-BROOKVIEW S-SIRE 616	USA 142717826						
LUTZ-BROOKVIEW S-SIRE 617	USA 142717835						
LUTZ-BROOKVIEW SONYA-ET	USA 140943348			C			
LUTZ-BROOKVIEW TRISHA-ET	USA 17163481						
LUTZ-MEADOWS AD LELA-RED-ET	USA 138237354						
LUTZ-MEADOWS TOY EMMA	USA 138509316						
LUTZ-MEADOWS TOY HELGA	USA 138772549						
LVA GUTHRIE BLUE JEAN	840003129454849						
LYBRYTY COMMANDER ALLIBI	840003128780357						
LYBRYTY COREY ALICE	840003128780348						
LYBRYTY MC ANNABELLE-ET	840003128780347						
LYBRYTY PETY CHANGE-TW	840003128780353						
LYBRYTY SATCHEL SLOBBER	USA 73725403						
LYLEHAVEN ADVT CHARS-RED-ET	USA 70908271						
LYLEHAVEN AFT LAKELYN-ET	USA 72735814					C	
LYLEHAVEN AFT LOUISA-ET	USA 72735811						
LYLEHAVEN AFTS PRISSY	USA 70908263					C	
LYLEHAVEN ASPEN PATSY-ET	USA 64890732						
LYLEHAVEN ATWO LULU 5328-ET	840003014371835						
LYLEHAVEN ATWOOD CELIA	USA 72735792						
LYLEHAVEN ATWOOD DEE DEE	USA 72735794						
LYLEHAVEN ATWOOD DREAMER	USA 70908242						
LYLEHAVEN ATWOOD LUE	USA 68655633	C					
LYLEHAVEN ATWOOD LYLly-ET	USA 68655585						
LYLEHAVEN BRADNICK LEYNA-ET	USA 72735773						
LYLEHAVEN BRADNICK POLLY	USA 70908302						
LYLEHAVEN BRD LOTTIE-ET	USA 72735762						
LYLEHAVEN BRD LOVISSA-ET	USA 72735767						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

259

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LYLEHAVEN BRDNK LILS4723-ET	USA 72302742						
LYLEHAVEN BRDNK LUCY4716-ET	USA 72302735						
LYLEHAVEN BROKAW LAVISTA-ET	USA 72735799					C	
LYLEHAVEN CASHMONEY LUEANN	USA 74414999	C					
LYLEHAVEN CLARK LAYLA	USA 70908281						
LYLEHAVEN CORV LIST 5351-ET	840003014371858						
LYLEHAVEN D-MAN LADY-L-ET	USA 72735816					C	
LYLEHAVEN D-MAN LATIFAH-ET	USA 72735782						
LYLEHAVEN DAISY	USA 62724126						
LYLEHAVEN DAMION CHABLIS-ET	USA 64890751						
LYLEHAVEN DAMION LESA	USA 68655639						
LYLEHAVEN DAMION LULU-ET	USA 62724101						
LYLEHAVEN DELTA LUSH	USA 72735796						1
LYLEHAVEN DOMAIN LISSET-ET	USA 70908293						
LYLEHAVEN DRHM LEA 4018-ET	USA 71600792						
LYLEHAVEN DURHAM CHASITY-ET	USA 70908253						
LYLEHAVEN DURHAM MAALI-ET	USA 136209939						
LYLEHAVEN EPIC LALA 4218-ET	USA 71600992						
LYLEHAVEN EPIC LENORA-ET	USA 70908297						
LYLEHAVEN EPIC LILIROSE-ET	USA 70908298						
LYLEHAVEN EPIC LOLA 4219-ET	USA 71600993						
LYLEHAVEN EPIC LYVIA-ET	USA 70908295						
LYLEHAVEN EXPLODE LUSTRE-ET	USA 70908262						
LYLEHAVEN FEVER LIFE4868-ET	USA 72302887						
LYLEHAVEN FORTUNE LATTE-ET	USA 64890750	C					
LYLEHAVEN FVR RAVE 5125-ET	840003014371632						
LYLEHAVEN GOLD LEYANAH-ETS	USA 64890762						
LYLEHAVEN GOLD LUCIANA-ETS	USA 64890761						
LYLEHAVEN GOLD LUNASTAR-ET	USA 64890791						
LYLEHAVEN GOLDWYN LE LEE-ET	USA 64890763						1
LYLEHAVEN GOLDWYN LETTIE-ET	USA 72735802						
LYLEHAVEN GWN LILY 4207-ET	USA 71600981						1
LYLEHAVEN GWYN LAURA-ET	USA 66535404						1
LYLEHAVEN GWYN LAVA4206-ET	USA 71600980						1
LYLEHAVEN GWYN LEXI-ET	USA 66535418						
LYLEHAVEN GWYN LILI 2774-ET	USA 66535550						1
LYLEHAVEN KING LAN 5497-ET	840003126755720						
LYLEHAVEN LASHES-ET	USA 68655645						
LYLEHAVEN LASSIE-ET	USA 131314720						
LYLEHAVEN LILA Z	USA 132449139						
LYLEHAVEN LISETTE-ET	USA 68655647						
LYLEHAVEN LTHY LUNET-ET	USA 70908251						1
LYLEHAVEN LUCKSTAR-ET	USA 68655644						
LYLEHAVEN MARDI GRAS PARTY	USA 73563780						
LYLEHAVEN NU LEXIS-ET	USA 72735772						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

260

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LYLEHAVEN NU LIANI-ET	USA 70908291						
LYLEHAVEN NU LISANDRA-ET	USA 70908292						
LYLEHAVEN NU LUANNA-ET	USA 72735771						
LYLEHAVEN NU PATRICIA-ET	USA 70908294						
LYLEHAVEN NUMERO UNO LIZA-L	USA 73090354	C					
LYLEHAVEN PRONTO LORENA-ET	USA 64890753						
LYLEHAVEN SABRINA	USA 125607498	C					
LYLEHAVEN SANCHEZ COOKIE	USA 68655641	C					
LYLEHAVEN SAVIOR LIQUOR-ET	840003014371535						
LYLEHAVEN SHOTTLE PATTY-ET	USA 64890768						
LYLEHAVEN STORM SPARKLE-ET	USA 127659099						
LYLEHAVEN SUPERSIRE LAVA	USA 73090339						
LYLEHAVEN SUZIE Q 2	USA 62724096						
LYLEHAVEN UNO LEXI 4225-ET	USA 71600999						
LYLEHAVEN UNO LISA 4739-ET	USA 72302758						
LYLEHAVEN UNO LYLA 4748-ET	USA 72302767						
LYN-LAND LEE ADORE	USA 131410042						
LYN-VALE AD CHILIPEPPER-RED	USA 63791780						
LYN-VALE AJ RENA-RED-ET	840003126667590						
LYN-VALE ASTRONOMICAL KIRA	USA 138376006						
LYN-VALE BARBWIRE GLARE	USA 71822001						3
LYN-VALE BKMAN RENAE-RED-ET	USA 69342016						
LYN-VALE DT REVEL-RED-ET	USA 71821995						
LYN-VALE LILLY RAE-RED-ET	840003013855118						1
LYN-VALE MUTANT KRYPTO-TW	USA 63132840						
LYN-VALE STERLING RIVA-ET	USA 69342019						
LYNNACRES RINGO BAMBI	840003132090315						
LYNNACRES SUPER KARMA	USA 66960248						
LYNNANNE MILAN	USA 71977120						
LYNNCREST BEACON HONIDIP	USA 141391733						
LYNNCREST BELLWOOD HALFPINT	USA 15905426						
LYNNCREST BW MARSHL HORIZON	USA 131471081						
LYNNCREST CAMERON ZOARA	USA 142049714						
LYNNCREST CANDACE-RED-ET	USA 141657279						
LYNNCREST CASANDRA-ET	USA 139204858						3
LYNNCREST COLT CASSIDY-RED	USA 141657318						
LYNNCREST DORCY ZAMEKA-ET	USA 140837494						
LYNNCREST FORTUNE AVACADO	USA 139737688						
LYNNCREST GARRETT ZUZU	USA 140974470					C	
LYNNCREST GREEN ZIPIT-ET	USA 143073459						
LYNNCREST GREEN ZIPPER-ET	USA 143073468						
LYNNCREST HANOVER ZAHARA-ET	USA 140358186						1
LYNNCREST JACEY ZENDAYA-ET	USA 142930849						
LYNNCREST JEEVES HONICRISP	USA 139866490						
LYNNCREST LARGE ZABRINA-ET	USA 142049581						

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

261

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LYNNCREST LARGE ZAJADA-ET	USA 142049590						
LYNNCREST LARGE ZAMBIA-ET	USA 142049572						
LYNNCREST MANOMAN MARISA	USA 141388993						
LYNNCREST MANOMAN ZINDRA-ET	USA 140837430						1
LYNNCREST RACER ZEA-ET	USA 143073486						
LYNNCREST RACER ZENA-ET	USA 143073495						
LYNNCREST SHOTTLE ZABOO-ET	USA 137475177						
LYNNCREST SKYLAR-RED	USA 142413263						
LYNNCREST SUDAN ZANADU-ET	USA 142150971						
LYNNCREST SUPER ZEDAISSY-ET	USA 141657288						1
LYNNCREST SUPER ZINNIA-ET	USA 140837458						
LYNNCREST T-STORY ZANDRA-ET	USA 138117258						
LYNNCREST UNO ZENECA	USA 142148123						
LYNVAIL BRIANA SYMP-RED-ET	840003013473981						
LYNVAIL PREDESTINE BISCOTTI	USA 142702824						
LYONDEN DELTA MELODY	USA 71630640			C			
LYONDEN SPEARMINT PEARL	USA 69352583						
LYONS-DL BABY DOLL-RED	USA 72165133						3
LYONS-DL CIRCUIT BARBIE	840003126102750						1
LYONS-DL LEGND JANICE-RED	USA 70638721						
LYONS-DL ROCCO JAYDE-RED-ET	USA 65287541						
LYONS-DL ROCCO JENNA-RED-ET	USA 65287530						
LYONS-DL ROCCO JUDY-RED-ET	USA 66937055						
LYSTEL LOZINE CHAMPION-ET	CAN 101603039						
LYSTEL TITANIC LOVELY THREE-ET	CAN 102680609		C				
LYTTLE-HYLL ALEXNDER JOVITA	USA 70393311						
LYTTLE-HYLL BALISTO JIGS	840003128652008						
LYTTLE-HYLL BOGART JUNIOR	USA 68644591						
LYTTLE-HYLL DALEN NIXIE	USA 70393319						
LYTTLE-HYLL DEFENDER JENNY	840003130809550						
LYTTLE-HYLL DOBERMAN JOLT	USA 71584296						
LYTTLE-HYLL DURABLE SIMONE	USA 70393302		C				3
LYTTLE-HYLL DUSK TWILA	USA 68644623						
LYTTLE-HYLL EMERALD GEM	USA 70393330	C					
LYTTLE-HYLL GABOR GARNET	USA 68644605						
LYTTLE-HYLL GRAYBIL JOYCE	USA 68644613						
LYTTLE-HYLL GUTHRIE GABBY	USA 71584340						
LYTTLE-HYLL HALOGEN JOYRIDE	USA 73551966						
LYTTLE-HYLL HONEYBE JUSTINE	840003128652011						
LYTTLE-HYLL HONEYBEE JERRIE	840003128652003						
LYTTLE-HYLL LANCE JADE	USA 72351697						
LYTTLE-HYLL MICKEY JUTE	USA 68644614	C					
LYTTLE-HYLL MICKEY NAN-TW	USA 68644586						
LYTTLE-HYLL MICKEY NANI-TW	USA 68644587						
LYTTLE-HYLL MILLION CHARITY	USA 68644606		C				

**Cows' status for haplotypes impacting fertility on the records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search**

262

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
LYTTLE-HYLL MILLION JORDANA	USA 65726980						
LYTTLE-HYLL OLEGANT LU	USA 72351709						
LYTTLE-HYLL PALERMO JANETTA	USA 70393301						
LYTTLE-HYLL PARTY JAZZY-ET	USA 73551937						
LYTTLE-HYLL PARTY JURY-ET	USA 73551951						
LYTTLE-HYLL PETRONE GOLD	USA 72351710	C					
LYTTLE-HYLL PONDER GABRIEL	USA 73551962						
LYTTLE-HYLL PRONTO JOJO	USA 65726954						
LYTTLE-HYLL RICHMAN JINNY	USA 68644628						
LYTTLE-HYLL ROSS ROSETTE	USA 65726963	C					
LYTTLE-HYLL S SIRE JAM-ET	USA 73551945						
LYTTLE-HYLL S SIRE JANEL-ET	USA 73551969						
LYTTLE-HYLL SANCHEZ ROZI	USA 68644629						
LYTTLE-HYLL SHOT JUICE	USA 70393336						
LYTTLE-HYLL SHOUT JOSEFA	USA 70393294	C					
LYTTLE-HYLL SUDN JUNIPER-ET	USA 72351685						
LYTTLE-HYLL SUDN JUSTIFY-ET	USA 71584334						
LYTTLE-HYLL SUP SIRE JOO-ET	USA 73551942						
LYTTLE-HYLL SUPER S JUMP-ET	USA 73551960						
LYTTLE-HYLL SUPERSIRE JR-ET	USA 73551931						
LYTTLE-HYLL SUPSIRE JANE-ET	USA 73551968						
LYTTLE-HYLL SUPSIRE JODI-ET	USA 73551939						
LYTTLE-HYLL TRIGGER JIGGER	USA 71584342					C	
LYTTLE-HYLL YODER GARNET	840003128652005						
LYTTLE-HYLL YODER JUPITER	840003128652006						