



PEDIGREE TOTAL PERFORMANCE INDEX PERCENTILE CUTOFF VALUES FOR 2017-2021

TOTAL PERFORMANCE SYSTEM DESIGNATIONS--Cut off values for:

YEAR OF BIRTH	<u>AVG. PTPI</u>	<u>P5</u>	<u>P6</u>	<u>P7</u>	<u>P8</u>	<u>P9</u>
MALES						
2017	2224	2053	2143	2248	2375	2490
2018	2368	2086	2168	2269	2390	2509
2019	2464	2201	2296	2415	2533	2659
2020	2504	2216	2294	2377	2475	2610
2021	2544*	2256*	2334*	2417*	2515*	2650*
FEMALES						
2017	2089	2027	2076	2129	2187	2266
2018	2169	2082	2139	2194	2258	2337
2019	2268	2151	2219	2281	2345	2437
2020	2328	2176	2234	2296	2369	2470
2021	2388*	2236*	2294*	2356*	2429*	2530*

* Projected Values

Guidelines for mating decisions:

By using your Genetic Herd Report and Sire Summaries Book or Red Book Plus you can plan your herd matings to produce calves with high genetic potential that may receive a P5 or higher genetic ranking. For example, when mating a cow in your herd with a CTPI of 2200, you can choose service sires which will produce female offspring that have a P5 or higher ranking.

Example 1: Using the 50th TPI bull with TPI = 2677:

$$\begin{aligned}
 \text{PTPI} &= [\frac{1}{2} (2677) + \frac{1}{2} (2200)]. \\
 &= [(1339) + (1100)] \\
 &= 2439 \text{ (qualifies for a P8 designation by exceeding the 2429 cutoff value in table above} \\
 &\quad \text{for females born in 2021)}
 \end{aligned}$$

Example 2: Using the top TPI bull with TPI = 2942:

$$\begin{aligned}
 \text{PTPI} &= [\frac{1}{2} (2942) + \frac{1}{2} (2200)]. \\
 &= [(1471) + (1100)] \\
 &= 2571 \text{ (qualifies for a P9 designation by exceeding the 2530 cutoff value in table above} \\
 &\quad \text{for females born in 2021)}
 \end{aligned}$$