



**TARLETON STATE UNIVERSITY**  
**DAIRY CATTLE CDE**

**PEDIGREE SCENARIO**

You are an Agricultural Science Teacher assisting a new FFA member in purchasing a dairy heifer. Most people told you to visually inspect the heifer for the characteristics that will make her a good show heifer. You have found 4 heifers that will work for the show ring and can purchase any of the 4 for the same price.

Most of the heifer sellers indicate that the TPI (Type Production Index) is a good way to measure genetic merit of an animal and they will pay more for a heifer with a higher TPI. The student that you are assisting will want to sell the heifer after showing her and you would expect to get more for a heifer with a higher TPI.

Rank the four heifer pedigrees based on TPI and remember the reliability (%R) affects the total score.

**DO NOT WRITE ON ANY PEDIGREE PAGES**





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PEDIGREE #2

Table containing pedigree information for two groups: TSU 2038 and TSU 7382. It includes animal IDs (e.g., NLD 159659231, USA 17121078), parentage (100% RHA-NA TV), and various performance metrics (PTA, MACE, YIELD, EVALUATION) for different traits (M, F, P, NM, PL, SCS, UDC, FLC, %R) along with dates (e.g., 3/2022, 2/14/17, 7/7/13, 5/21/15).



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**PEDIGREE #3**

<p>TSU 8273 NLD 159659231      100% RHA-NA TV</p> <p>MACE      YIELD      EVALUATION  PTA      +1325 M      +65 F      +63 P      88 %R      3/2022  PTA           +0.18 %F      +0.08 %P      0%US  PTA      +625 NM      +1.4 PL      3.47 SCS  MACE      YIELD      EVALUATION  PTA      +2.5 T      +1.25 UDC      +2.37 FLC      91 %R      3/2022</p>	<p>JUSTIN'S 3325 NLD 159659231      100% RHA-NA TV</p> <p>MACE      YIELD      EVALUATION  PTA      +1200 M      +96 F      +80 P      90 %R      9/10/10  PTA           +0.18 %F      +0.10 %P      0%US  PTA      +650 NM      +1.5 PL      3.5 SCS  MACE      YIELD      EVALUATION  PTA      +1.3 T      +1.4 UDC      +1.0 FLC      85 %R      3/2022</p> <p align="center">-----</p> <p>WESTERN 3325 USA 17121078      100% RHA-NA TV</p> <p>2-06 87 VEVVV      GMD DOM      7/11/12</p> <p>PTA      +2300 M      +110 F      +90 P      72 %R      3/2022  PTA           +0.06 %F      +0.05 %P  PTA      .700 NM      -0.03 PL      +3.5 SCS  PTA      +1.5 T      +0.59 UDC      +.001 FLC      75 %R      3/2022</p>		
<p>TPI + 2249</p> <p>12/1/16</p> <p>3/2022</p>	<p>TPI +1235</p> <p>CTPI +1225</p>		
<p>TSU 1892 USA 17121078      100% RHA-NA TV</p> <p>2-06 87 VEVVV      GMD DOM</p> <p>PTA      +668 M      +113 F      +92 P      72 %R      3/2022  PTA           +0.06 %F      +0.04 %P  PTA      +325 NM      -0.03 PL      3.215 SCS  PTA      +2.6 T      +0.36 UDC      -0.02 FLC      72 %R      3/2022</p>	<p>DSS 1235 NLD 159659231      100% RHA-NA TV</p> <p>MACE      YIELD      EVALUATION  PTA      +1396 M      .68 F      +63 P      87 %R      3/2022  PTA           +0.18 %F      +0.08 %P      0%US  PTA      .652 NM      +1.0 PL      3.48 SCS  MACE      YIELD      EVALUATION  PTA      +1.37 T      +1.52 UDC      +2.5 FLC      88 %R      3/2022</p> <p align="center">-----</p> <p>JONES 3365 USA 17121078      100% RHA-NA TV</p> <p>2-06 87 VEVVV      GMD DOM      10/26/12</p> <p>PTA      +1000 M      .90 F      .15 P      58 %R      3/2022  PTA           +0.07 %F      +0.05 %P  PTA      +633 NM      -0.03 PL      3.5 SCS  PTA      +1.5 T      +0.60 UDC      +.02 FLC      66 %R      3/2022</p>	<p>CTPI + 2130</p> <p>3/29/15</p> <p>3/2022</p>	<p>TPI +1100</p> <p>1/19/13</p> <p>CTPI +652</p>



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**PEDIGREE #4**

										MILLER 366		TPI			
										NLD 159659231		+1255			
										100% RHA-NA TV		6/8/16			
										MACE		YIELD		EVALUATION	
										PTA		+1400 M		+102 F +85 P 90 %R	
										PTA				+0.18 %F +0.10 %P 0%US	
										PTA		.600 NM		+1.5 PL 3.5 SCS	
										MACE		YIELD		EVALUATION	
										PTA		+1.4 T		+1.3 UDC +2.5 FLC 69 %R	
												-----			
														CTPI	
														+1885	
										GOLDEN PRIDE 985					
										USA 17121078		100% RHA-NA TV			
										2-06 87 VEVVV		GMD DOM		3/29/16	
										PTA		+2300 M		+110 F +90 P 75 %R	
										PTA				+0.06 %F +0.05 %P	
										PTA		.700 NM		-0.03 PL +3.5 SCS	
										PTA		+1.5 T		+0.59 UDC +.001 FLC 80 %R	
												-----			
														TPI	
										JKL 6895		+965			
										NLD 159659231		100% RHA-NA TV		4/11/12	
										MACE		YIELD		EVALUATION	
										PTA		+1396 M		.68 F +63 P 87 %R	
										PTA				+0.18 %F +0.08 %P 0%US	
										PTA		.652 NM		+1.0 PL 3.48 SCS	
										MACE		YIELD		EVALUATION	
										PTA		+1.37 T		+1.52 UDC +2.5 FLC 88 %R	
												-----			
														CTPI	
														+1252	
										MM 658					
										USA 17121078		100% RHA-NA TV		11/11/11	
										2-06 87 VEVVV		GMD DOM			
										PTA		+1120 M		+90 F +.15 P 57 %R	
										PTA				+0.07 %F +0.05 %P	
										PTA		+634 NM		-0.03 PL 3.5 SCS	
										PTA		+1.4 T		+0.60 UDC +.02 FLC 55 %R	
												-----			
														TPI	
														+2419	
										TSU 2000					
										NLD 159659231		100% RHA-NA TV		2/28/19	
										MACE		YIELD		EVALUATION	
										PTA		+1352 M		+90 F +65 P 76 %R	
										PTA				+0.18 %F +0.08 %P 0%US	
										PTA		+596 NM		+1.4 PL 3.47 SCS	
										MACE		YIELD		EVALUATION	
										PTA		+1.4 T		+1.3 UDC +2.37 FLC 83 %R	
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														CTPI	
														+2392	
										TSU 5020					
										USA 17121078		100% RHA-NA TV		8/9/17	
										2-06 87 VEVVV		GMD DOM			
										PTA		+1325 M		+123 F +90 P 85 %R	
										PTA				+0.06 %F +0.04 %P	
										PTA		+667 NM		-0.03 PL 3.16 SCS	
										PTA		+1.54 T		+0.59 UDC +.01 FLC 79 %R	

**Invitational**

Quiz Numbers:

20 \ 26 \ 28 \ 33 \ 43 \ 44 \ 56 \ 71 \ 74 \ 78 \ 94 \ 113 \ 126 \ 167 \ 168 \ 194  
206 \ 277 \ 279 \ 281 \ 286 \ 316 \ 321 \ 341 \ 346

Pedigree: 4-1-3-2, Cuts 4-3-2

Dairy Cattle

Pedigree