



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



TARLETON STATE UNIVERSITY DAIRY CATTLE CDE

PEDIGREE #1

										TPI	
										1111	
										6/22/17	
TSU 3492							TPI				
NLD 159659231	100% RHA-NA TV						+ 2199				
										4/9/19	
MACE	YIELD	EVALUATION									
PTA	+1532	M	+96	F	+63	P				72 %R	3/2022
PTA			+0.18	%F	+0.08	%P			0%US		
PTA	+569	NM	+1.3	PL	3.47	SCS					
MACE	YIELD	EVALUATION									
PTA	+1.37	T	+1.25	UDC	+2.37	FLC				71 %R	3/2022
										CTPI	
										+ 2282	
TSU 9102							CTPI				
USA 17121078	100% RHA-NA TV						+ 2282				
										10/10/18	
										2-06 87 VEVVV	
										GMD DOM	
PTA	+2300	M	+111	F	+89	P				70 %R	3/2022
PTA			+0.06	%F	+0.04	%P					
PTA	+600	NM	-0.03	PL	3.16	SCS					
PTA	+1.46	T	+0.59	UDC	-0.02	FLC				73 %R	3/2022
										CTPI	
										+620	
MILK MACHINE 2256							CTPI				
USA 17121078	100% RHA-NA TV						+620				
										3/11/16	
										2-06 87 VEVVV	
										GMD DOM	
PTA	+1000	M	.90	F	.15	P				57 %R	5/2002
PTA			+0.07	%F	+0.05	%P					
PTA	+633	NM	-0.03	PL	3.5	SCS					
PTA	+1.5	T	+0.60	UDC	+0.02	FLC				55 %R	5/2002
										FRISCO'S 123456	
										12121	
										12/15/16	
										USA 17121078	
										100% RHA-NA TV	
										2-06 87 VEVVV	
										GMD DOM	
PTA	+2300	M	+110	F	+90	P				73 %R	5/2002
PTA			+0.06	%F	+0.05	%P					
PTA	.700	NM	-0.03	PL	+3.5	SCS					
PTA	+1.5	T	+0.59	UDC	+0.01	FLC				74 %R	5/2002
										OKLAHOMA 125663	
										12653	
										6/30/14	
										NLD 159659231	
										100% RHA-NA TV	
										MACE	
										YIELD	
										EVALUATION	
PTA	+1396	M	.68	F	+63	P				87 %R	5/2002
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	5/2002



**TARLETON STATE UNIVERSITY
DAIRY CATTLE CDE**

PEDIGREE #2

										DFA 123WC		TPI			
										NLD 159659231		100% RHA-NA TV		+1800	
														11/25/11	
										MACE		YIELD		EVALUATION	
										PTA		+1325 M		+102 F +85 P 99 %R	
										PTA				+0.18 %F +0.10 %P 0%US	
										PTA		+652 NM		+1.5 PL 3.5 SCS	
										MACE		YIELD		EVALUATION	
										PTA		+4 T		+2 UDC +3.2 FLC 62 %R	

										GOLDEN'S 322663		CTPI		+1665	
										USA 17121078		100% RHA-NA TV			
										2-06 87 VEVVV		GMD DOM		2/1/12	
										PTA		+300 M		+111 F +90 P 74 %R	
										PTA				+0.06 %F +0.05 %P	
										PTA		+600 NM		-0.03 PL +3.5 SCS	
										PTA		+1.8 T		+0.59 UDC +0.02 FLC 76 %R	

										99 14455		TPI		+1252	
										NLD 159659231		100% RHA-NA TV			
														7/7/13	
										MACE		YIELD		EVALUATION	
										PTA		+1396 M		.68 F +63 P 65 %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 66 %R	

										WOOD'S 6655		CTPI		+888	
										USA 17121078		100% RHA-NA TV			
										2-06 87 VEVVV		GMD DOM		5/21/15	
										PTA		+255 M		+90 F +.15 P 57 %R	
										PTA				+0.07 %F +0.05 %P	
										PTA		+652 NM		-0.03 PL 3.5 SCS	
										PTA		+1.3 T		+5 UDC -.01 FLC 55 %R	

										TSU 2038		TPI		+ 2371	
										NLD 159659231		100% RHA-NA TV			
														2/14/17	
										MACE		YIELD		EVALUATION	
										PTA		+1400 M		+98 F +65 P 72 %R	
										PTA				+0.18 %F +0.08 %P 0%US	
										PTA		+580 NM		+1.4 PL 3.47 SCS	
										MACE		YIELD		EVALUATION	
										PTA		+1.4 T		+1.5 UDC +2.37 FLC 75 %R	

										TSU 7382		CTPI		+ 2372	
										USA 17121078		100% RHA-NA TV			
										2-06 87 VEVVV		GMD DOM		6/28/18	
										PTA		+2300 M		+95 F +89 P 74 %R	
										PTA				+0.06 %F +0.04 %P	
										PTA		+622 NM		-0.03 PL 3.16 SCS	
										PTA		+1.50 T		+0.59 UDC -0.05 FLC 72 %R	



TARLETON STATE UNIVERSITY
DAIRY CATTLE CDE

PEDIGREE #3

TSU 8273
NLD 159659231
100% RHA-NA TV
MACE YIELD EVALUATION
PTA +1325 M +65 F +63 P 85 %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 92 %R 3/2022

TPI
+ 2395

12/1/16

JUSTIN'S 3325
NLD 159659231
100% RHA-NA TV
MACE YIELD EVALUATION
PTA +1200 M +96 F +80 P 90 %R 3/2022
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

TPI
+1235

9/10/10

3/2022

3/2022

3/2022

WESTERN 3325
USA 17121078
100% RHA-NA TV
2-06 87 VEVVV GMD DOM
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 +0.01 FLC 75 %R 3/2022

CTPI
+1225

7/11/12

3/2022

3/2022

3/2022

TSU 1892
USA 17121078
100% RHA-NA TV
2-06 87 VEVVV GMD DOM
PTA +668 M +113 F +92 P 75 %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 79 %R 3/2022

CTPI
+ 2247

3/29/15

DSS 1235
NLD 159659231
100% RHA-NA TV
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

TPI
+1100

1/19/13

3/2022

3/2022

3/2022

JONES 3365
USA 17121078
100% RHA-NA TV
2-06 87 VEVVV GMD DOM
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 +0.2 FLC 66 %R 3/2022

CTPI
+652

10/26/12

3/2022

3/2022

3/2022



TARLETON STATE UNIVERSITY DAIRY CATTLE CDE

PEDIGREE #4

<p>TSU 2000 NLD 159659231 100% RHA-NA TV</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">MACE</td> <td style="width: 10%;">YIELD</td> <td colspan="4">EVALUATION</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>+1352 M</td> <td>+90 F</td> <td>+65 P</td> <td></td> <td>69 %R</td> <td></td> <td>3/2022</td> <td></td> </tr> <tr> <td>PTA</td> <td></td> <td>+0.18 %F</td> <td>+0.08 %P</td> <td></td> <td>0%US</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>+596 NM</td> <td>+1.4 PL</td> <td>3.47 SCS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;">MACE YIELD EVALUATION</p> <p>PTA +1.4 T +1.3 UDC +2.37 FLC 76 %R 3/2022</p>	MACE	YIELD	EVALUATION								PTA	+1352 M	+90 F	+65 P		69 %R		3/2022		PTA		+0.18 %F	+0.08 %P		0%US				PTA	+596 NM	+1.4 PL	3.47 SCS						<p>TPI + 2513</p> <p>2/28/19</p>	<p>MILLER 366 NLD 159659231 100% RHA-NA TV</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">MACE</td> <td style="width: 10%;">YIELD</td> <td colspan="4">EVALUATION</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>+1400 M</td> <td>+102 F</td> <td>+85 P</td> <td></td> <td>90 %R</td> <td></td> <td>3/2022</td> <td></td> </tr> <tr> <td>PTA</td> <td></td> <td>+0.18 %F</td> <td>+0.10 %P</td> <td></td> <td>0%US</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>.600 NM</td> <td>+1.5 PL</td> <td>3.5 SCS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;">MACE YIELD EVALUATION</p> <p>PTA +1.4 T +1.3 UDC +2.5 FLC 69 %R 3/2022</p>	MACE	YIELD	EVALUATION								PTA	+1400 M	+102 F	+85 P		90 %R		3/2022		PTA		+0.18 %F	+0.10 %P		0%US				PTA	.600 NM	+1.5 PL	3.5 SCS						<p>TPI +1255</p> <p>6/8/16</p>
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<p style="text-align: center; margin-top: 20px;">MACE YIELD EVALUATION</p> <p>PTA +1325 M +123 F +90 P 82 %R 3/2022</p> <p>PTA +0.06 %F +0.04 %P</p> <p>PTA +667 NM -0.03 PL 3.16 SCS</p> <p>PTA +1.54 T +0.59 UDC +.01 FLC 77 %R 3/2022</p>	<p>CTPI + 2200</p> <p>8/9/17</p>	<p>GOLDEN PRIDE 985 USA 17121078 100% RHA-NA TV</p> <p style="text-align: center;">2-06 87 VEVVV GMD DOM</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">PTA</td> <td style="width: 10%;">YIELD</td> <td colspan="4">EVALUATION</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>+2300 M</td> <td>+110 F</td> <td>+90 P</td> <td></td> <td>75 %R</td> <td></td> <td>3/2022</td> <td></td> </tr> <tr> <td>PTA</td> <td></td> <td>+0.06 %F</td> <td>+0.05 %P</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>.700 NM</td> <td>-0.03 PL</td> <td>+3.5 SCS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;">MACE YIELD EVALUATION</p> <p>PTA +1.5 T +0.59 UDC +.001 FLC 80 %R 3/2022</p>	PTA	YIELD	EVALUATION								PTA	+2300 M	+110 F	+90 P		75 %R		3/2022		PTA		+0.06 %F	+0.05 %P						PTA	.700 NM	-0.03 PL	+3.5 SCS						<p>CTPI +1885</p> <p>3/29/16</p>																																					
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<p style="text-align: center; margin-top: 20px;">MACE YIELD EVALUATION</p> <p>PTA +1120 M +90 F +.15 P 57 %R 3/2022</p> <p>PTA +0.07 %F +0.05 %P</p> <p>PTA +634 NM -0.03 PL 3.5 SCS</p> <p>PTA +1.4 T +0.60 UDC +.02 FLC 55 %R 3/2022</p>	<p>CTPI +1252</p> <p>11/11/11</p>	<p>JKL 6895 NLD 159659231 100% RHA-NA TV</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 10%;">MACE</td> <td style="width: 10%;">YIELD</td> <td colspan="4">EVALUATION</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>+1396 M</td> <td>.68 F</td> <td>+63 P</td> <td></td> <td>87 %R</td> <td></td> <td>3/2022</td> <td></td> </tr> <tr> <td>PTA</td> <td></td> <td>+0.18 %F</td> <td>+0.08 %P</td> <td></td> <td>0%US</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PTA</td> <td>.652 NM</td> <td>+1.0 PL</td> <td>3.48 SCS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center; margin-top: 10px;">MACE YIELD EVALUATION</p> <p>PTA +1.37 T +1.52 UDC +2.5 FLC 88 %R 3/2022</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						<p>TPI +965</p> <p>4/11/12</p>																																					
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