



2024 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 #3

Table with columns for animal ID, parent IDs, and various performance metrics (PTA, MACE, YIELD, EVALUATION, %R, %F, %P, %US, UDC, FLC, SCS, CTPI, TPI). Rows include animals like TSU 8273, TSU 1892, DSS 1235, and JONES 3365 with their respective pedigree information and performance data.



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DAIRY CATTLE CDE

PEDIGREE #4

				MILLER 366				TPI	
				NLD 159659231				+1255	
				100% RHA-NA TV				6/8/17	
				MACE	YIELD	EVALUATION			
				PTA	+1400 M	+102 F	+85 P	90 %R	3/2023
				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	3/2023

TSU 2000								CTPI	
NLD 159659231				100% RHA-NA TV				+1885	
								3/28/20	
				MACE	YIELD	EVALUATION			
				PTA	+1352 M	+90 F	+65 P	91 %R	3/2023
				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	87 %R	3/2023
				GOLDEN PRIDE 985					
				USA 17121078				100% RHA-NA TV	
				2-06 87 VEVVV				GMD DOM	3/29/17
				PTA	+2300 M	+110 F	+90 P	75 %R	3/2023
				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	80 %R	3/2023
								TPI	
				JKL 6895				+965	
				NLD 159659231					
				100% RHA-NA TV				4/11/13	
				MACE	YIELD	EVALUATION			
				PTA	+1396 M	.68 F	+63 P	87 %R	3/2023
				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	3/2023

TSU 5020								CTPI	
USA 17121078				100% RHA-NA TV				+1252	
				2-06 87 VEVVV				GMD DOM	11/11/12
								8/9/18	
				MACE	YIELD	EVALUATION			
				PTA	+1325 M	+123 F	+90 P	90 %R	3/2023
				PTA	+0.06 %F +0.04 %P				
				PTA	+667 NM	-0.03 PL	3.16 SCS		
				PTA	+1.54 T	+0.59 UDC	+0.01 FLC	87 %R	3/2023
								TPI	
				MM 658				+1252	
				USA 17121078				100% RHA-NA TV	
				2-06 87 VEVVV				GMD DOM	11/11/12
				PTA	+1120 M	+90 F	+15 P	57 %R	3/2023
				PTA	+0.07 %F +0.05 %P				
				PTA	+634 NM	-0.03 PL	3.5 SCS		
				PTA	+1.4 T	+0.60 UDC	+0.02 FLC	55 %R	3/2023



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DAIRY CATTLE CDE
PEDIGREE SOLUTION

	<u>AVG %R</u>	<u>TPI</u>	<u>POINTS</u>	<u>Rank</u>	<u>Placing</u>
PEDIGREE #1	83.5	2758	2303	<u>4</u>	2 - 4 - 3 - 1
	70.5	2889	2037		
			<u>4340</u>		
PEDIGREE #2	88.5	2999	2654	<u>1</u>	Cuts 3 - 2 - 4
	78.5	3014	2366		
			<u>5020</u>		
PEDIGREE #3	89.5	3123	2795	<u>3</u>	
	76.0	2436	1851		
			<u>4646</u>		
PEDIGREE #4	89.0	2654	2362	<u>2</u>	
	88.5	2745	2429		
			<u>4791</u>		