



**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 containing pedigree information for three cows: TSU 8273, TSU 1892, and DSS 1235. Each entry includes sire information, breed percentages, and performance metrics such as PTA, MACE, YIELD, and EVALUATION across various traits like M, F, NM, T, P, %R, %F, %P, PL, SCS, UDC, and FLC.



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PEDIGREE #4

Table with columns for animal ID, sire/dam, and various performance metrics including MACE, YIELD, EVALUATION, PTA, and TPI. Includes pedigree information for TSU 2000, TSU 5020, MILLER 366, and GOLDEN PRIDE 985.



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**PEDIGREE SOLUTION**

	<u>AVG %R</u>	<u>TPI</u>	<u>POINTS</u>	<u>Rank</u>	<u>Placing</u>
<b>PEDIGREE #1</b>	76.0	2344	1781		<b>3 - 4 - 1 - 2</b>
	74.5	2391	1781	3	
			3563		
<b>PEDIGREE #2</b>	70.5	2417	1704		<b>Cuts 2 - 3 - 4</b>
	69.0	2418	1668	4	
			3372		
<b>PEDIGREE #3</b>	83.5	2337	1951		
	77.5	2301	1783	1	
			3735		
<b>PEDIGREE #4</b>	78.5	2299	1805		
	76.5	2474	1893	2	
			3697		