

White Track

Station #1

- 1) Using your unit, obtain the Latitude and Longitude coordinates for this station and place your answer in the spaces labeled 2 - Latitude and 2 - Longitude on your scantron sheet.

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Station #2 (All Tracks)

As agricultural endeavors continue to be increasingly difficult to “turn a profit”, many farmers and ranchers are looking for ways to diversify their farms and continue farming. In an effort to tap into the United States’ \$5.76 billion dollar viticulture industry, the landowner has partitioned off a small area of land (a triangle; that is identifiable by the wooden or steel stakes) to allow for development of a table grape vineyard with hopes of obtaining an income of \$5,488/acre (USDA, 2018). As county agent and local expert viticulturist, you have been asked to assist with the planning phase of this endeavor.

So, your instructions for this station are to...

- 1) Use the map provided by the landowner (see below) to identify the field corners
- 2) Use your GPS unit to measure (**in feet**) the base and height of the field. (NOTE: You can write your lengths in the **green**, open space on your scan sheet below your GPS Test #)
- 3) Then, use the formula (calculation process) below to calculate the area (**in acres**) of the field.
- 4) Place your answer in answer space 4 in the GPS Section of the scan sheet. (Note: Ignore the decimal place, round to 3 digits...**see below!!!!**)

Formula (calculation process):

- 1) Area = $\frac{\text{Base} \times \text{Height}}{2}$
- 2) Divide your answer by 43,560 (to convert to acres).
- 3) Place your answer in answer space 4 within the GPS Section of the scan sheet. (Ignore the decimal and round to 3 digits; for example, 9.458 should be entered as 946 on the scan sheet; likewise, 0.9458 entered as 946)

