



SWSA Lesson 3.2-bank

What do you see

MULTIPLE CHOICE

1. When using a wind speed calculator, what effect does increasing the alpha value have on the wind speed output?
 - a. The wind speed increases dramatically
 - b. The wind speed shows a minor change
 - c. The wind speed is unaffected
 - d. The wind speed decreases

ANS: D

PTS: 1

SHORT ANSWER

1. What wind site assessment information is best obtained from an aerial photograph?

ANS:

Land use- fields, woodlots, buildings, roads, obstructions nearby
The lay of the land, to a certain extent

PTS: 1

2. What wind site assessment information is best obtained from a topographic map?

ANS:

Changes in elevation- hills, valleys

PTS: 1

3. When looking for a wind “window”, what do you need to see?

ANS:

Prevailing wind direction
Ground level obstructions
Topography and terrain
Tree cover

PTS: 1

4. What are the primary visual tools used for wind resource assessment?

ANS:

Aerial photos- Google Earth, Google Maps, Mapquest, etc.
Topographic maps
Site photos at ground level

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PTS: 1

5. List the things you need to know in order to size and site a wind tower at any given location.

ANS:

Prevailing wind direction

Ground clutter/ obstructions

Mature tree height

Tree density

Distance from tower location to trees

Elevation of trees

Immediate terrain- complexity, changes in elevation

Area topography

PTS: 1

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