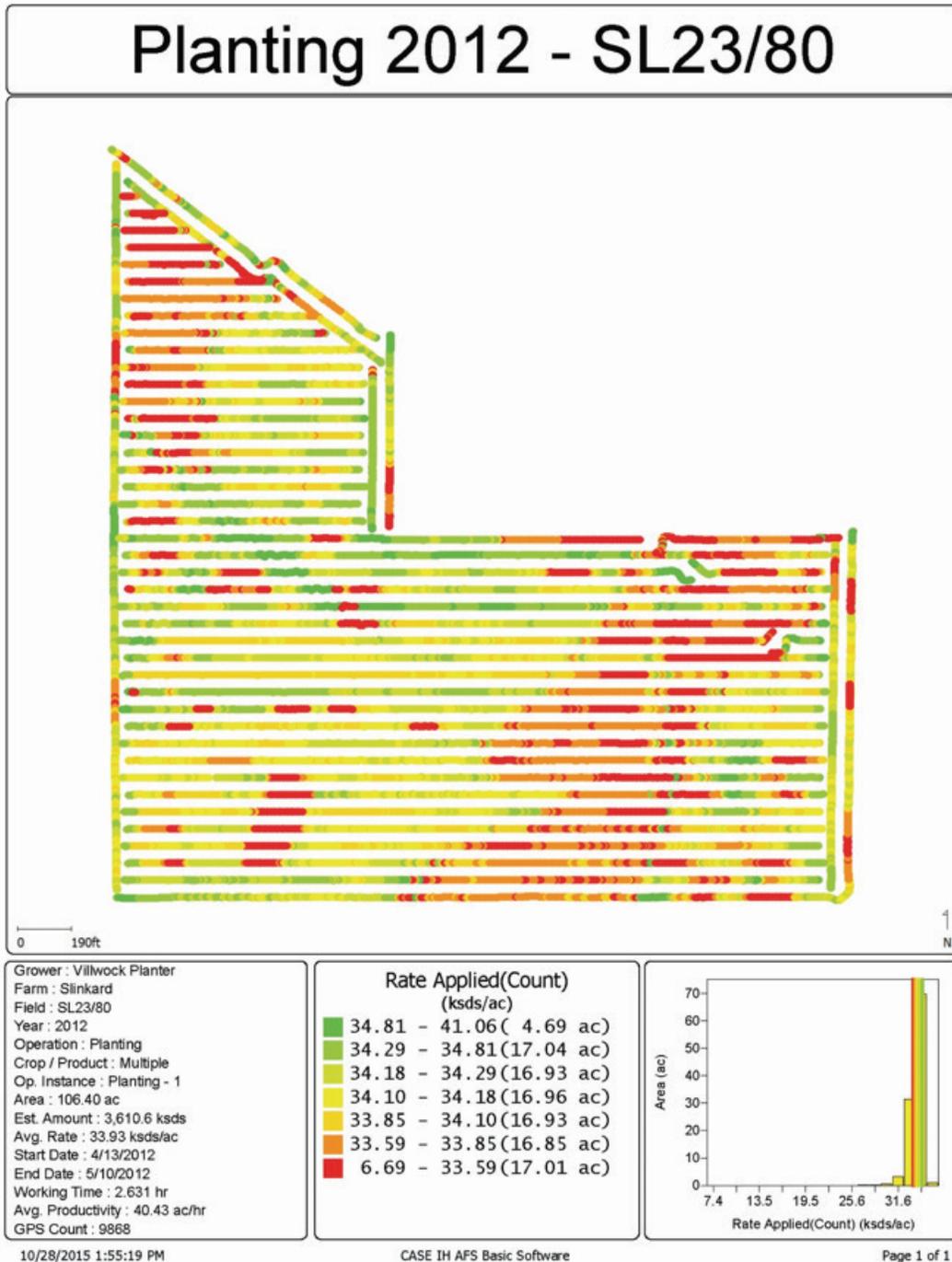


## Worksheet 4: Planting Map

Part One:

The map below is a planting map for the same fields of the Villwock Farm that appeared on the Soil Map.



**What is the map about?** Examine the **Planting Map** by completing the five tasks listed below. Write your answers in the spaces below. **NOTE:** The term **ksds/ac** that appears in the legend means thousands of seeds per acre. The variously colored lines, going east and west on the map, represent the rows of seed planted as the planter moves across the field.

1. Inspect the title

2. Describe the symbols

3. Examine the scale

4. Use the compass to find north

5. Check the footnotes

**What does the map say?** Examine the **Planting Map**. Determine how the features on the map are arranged by answering the following questions. Write your answers in the spaces below.

1 . Are there areas of high, medium, and low seed application shown on the map? What makes you say so? And what are they?

2. Are the arrangement of areas experiencing low seed application rates random, clustered or uniformly distributed? Are there exceptions to this pattern? What makes you say so?

3. Are the arrangement of areas experiencing high or medium seed application rates clustered or evenly distributed? Are there exceptions to this pattern? What makes you say so?

**What does the map mean?** Consider the Planting Map. Summarize the information that you obtained from the map. In the space provided, write a short paragraph summarizing this information. This summary paragraph should be comprised of five to six sentences that draw together the information obtained from the map.

#### Part Two

It would be interesting to compare the soil map and the planting map to explore more fully the relationship between soil characteristics and seed application rate patterns, as we have considered in this lesson.

Question: Are the Soil Map and the Planting Maps comparable? What makes you say so? Enter your answer in the space below:

Question: Are there areas in the fields where a particular soil zone and low seed application rates are apparent? Use a marker to place X's on the Planting Map where these areas are located.

Question: Are there areas in the fields where a particular soil zone and high seed application rates are found? Use a marker to place circles on the Planting Map where those areas are located.

Question: Are there areas in the fields where particular soil zones and several different seed application rates found? Use a marker to place triangles on the Planting Map where those areas are located.

Question: Which soil zone is the least productive for planting corn?

Question: Which soil zone is the most productive for planting corn?