

Scenario #1

Farmer Smith over seeded an 80-acre field with a winter rye cover crop last fall. Fall growth was phenomenal. Over the course of the winter he did some reading and went to a couple workshops on cover crop management. It's now early March and he's asking you about conflicting information about when to apply a spring burn down herbicide and what herbicide(s) he should use. He's not totally convinced glyphosate will work good enough or quick enough to plant corn on April 11. He asks you if you can help him design a field trial that might get at these questions. He has a 16 row planter, 8 row combine, 90-foot sprayer with 3 30-foot boom sections.

What treatments should be used?

Sketch a plot layout considering the Mr. Smith's equipment and the identified treatments?

What data should be collected?

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Scenario #2

Farmer Doe is interested in starting to use cover crops. She is also a seed dealer with customers who have experience with cover crops. After going to a couple of field days and talking to customers about cover crops she's curious about how different corn hybrids might respond following cover crops. She has 2 80-acre fields that have been planted to cover crops last fall; one will be first year corn and the other will be fourth year corn. She's already got the custom applied lined up to apply herbicides for spring burn down around April 5. Since she is a seed dealer she has access to different hybrids. She has a 24-row planter and a 6-row combine. She really wants you to be involved in the plot design and determining which hybrids to use as well as determining what data should be collected.

What hybrid characteristics should be considered?

Sketch a plot layout that identifies Ms. Doe's interests and identified treatments?

What data should be collected?

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