

Smart Farming: Using data to make decisions

Decision Tracker Field # _____

Use this sheet to track your decisions as you explore the data in Smart Farming.

Data/Step	Decision	Entry on spreadsheet
I.A. Spray down cover crop or last year's residue w/herbicide (no-till) or conventional (tilling)		None - Long-term effect on soil health/erosion and nutrients
I.B.i. Adjustment to soil (according to soil report): pH adjustment		1=yes (variable rate, only where needed) or none needed, 0.5 (at same rate across the field), 0=none
I.B.ii. Adjustment to soil (according to soil report): nutrient adjustment		1=yes (variable rate, only where needed), 0.5 (same rate across the entire field), 0=none
I.C. Crop choice (variety)	There are many choices; however, we have chosen one variety for the purposes of this activity.	No decision to enter.
II.A. & B. Seeding rate (population) and row width	Calculate two rates (Rate 1 and Rate 2); decide where to plant at rate 1 and rate 2 (on left side of your field); determine the predicted yield based on calculations	Enter "1" or "2" in the field locations on the left; enter your prediction of yield rates where indicated
OPTIONAL Activity III.A.i. Insecticide application (can be completed either with a field to scout or using speed scouting example)	You may only enter a decision for either herbicide treatment OR pesticide treatment. (For herbicide treatment, see below)	1- yes (targeted rate only where needed), 0.5 (same rate across the entire field), 0=none
IV.A. Sell or Store?	Transportation costs	Take bushels * current price (https://www.agweb.com/crops/soybeans/ for current price) Enter here:
Profit and preparation for next year		

Roll a die to determine the outcome for these factors:

Other factors	Criteria	Entry on Spreadsheet
III.A.i. Herbicide application (although you may have a strategy in mind to control weeds, weeds may come from many sources)	Roll: 1 or 2—weeds throughout the field; 3, 4 or 5—weeds in one or two areas of the field; 6—weed free! (For a roll of 6, enter a 1 on spreadsheet)	Still need to decide: -targeted rate only where needed, enter 1 -same rate used across the entire field, enter 0.5 -none used even if weeds present, enter 0
Weather (rain, hail, etc)	Roll: 1 or 2—normal; 3, 4 or 5—too wet/too dry; 6—optimal	1 – normal; 0.5 – too wet, too dry; 1.5 – optimal

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