Soil Health Questionnaire: costs and benefits for farms in New York State

Background: This guestionnaire for farmers is coordinated by Cornell University as part of the New York State Soil Health Initiative, funded by NYS Ag & Markets. The initiative is focused on soil health, farm sustainability, environmental quality, and resilience of agriculture to extreme weather events. Completion of this questionnaire is voluntary and anonymous.

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Please indicate the location of your farm ("your farm" is the farm where you contribute most significantly in planning and operation; report for this farm only): State: County(s):

Do you consider any of the following factors to be significant constraints on crop production at your farm? (Circle all that apply):

- Soil compaction Flooding a. e. Soil erosion Poor weed control b. f. Inadequate water retention Insect pests C. g. Crop diseases h.
- d. Poor drainage
- In the following table, please indicate the approximate number of acres you have in production for each crop category at your farm, and check the boxes as applicable:

Low soil fertility

Insufficient labor

Other constraints:

İ.

j.

k.

Cropping system	Number of acres	In rotation?	with cover crops?	with reduced tillage?	Certified organic?
	00103		crops:	illiage :	organic :
Grains, oil seeds, dry beans					
Corn or soybean for feed					
Tree fruit and/or grapes					
Berry crops (incl. strawberries)					
Vegetables (incl. potatoes)					
Alfalfa, pasture, hay					
Other forage crops					
Other crops:					

Complete the following sections as applicable:

Tillage F	Practices: For approximately how many years have	you	used reduced tillage (no-till, zone-till, strip-till) on	your	farm? (Circle only one):		
а.	1 to 5 years	C.	10 to 20 years	e.	e. Reduced tillage is not used (skip to		
b.	5 to 10 years	d.	More than 20 years		Cover Crops, next page)		
What are your added expenses associated with your reduced tillage practices, compared to conventional tillage? (Circle all that apply):							
а.	5 11	C.	Greater herbicide-related costs	e. Other costs:			
b.	Specialized planting equipment	d.	Increased labor				
What reductions in expenses do you attribute to your reduced tillage practices? (Circle all that apply):							
а.	Reduced insecticide inputs	d.	Reduced labor, fuel, or equipment	g.	Easier or faster harvest		
b.	Reduced herbicide inputs	e.	Less erosion or sedimentation repairs	h.	Reduced irrigation		
C.	Reduced fertilizer inputs	f.	Avoided drainage investments	İ.	Other reduction:		
What effect on farm income do you attribute to your reduced tillage practices? (Circle all that apply):							
a.	Greater yields	C.	Access to cost-share programs or	d.	Other effect on income:		
b.	Reduced yields		incentives: Please list::				
How would you describe the profitability of your reduced tillage practices on your farm over the long term (compared to 100% conventional)? (Circle only one):							
a.	Increases profitability	C.	Neutral impact on profitability	d.	Other impact on profitability:		
b.	Decreases profitability						
Survey continues on other side of page							

Cover Crops: For approximately how many years have				
a. 1 to 5 years	c. 10 to 20 years	e. Cover crops are not used (skip to Soil		
b. 5 to 10 years	d. More than 20 years	Amendment Practices, this page)		
What are your added expenses associated with establishing	and managing your cover crops? (Circle all that apply):			
a. Cover crop seed costs	d. Additional research, scouting, or labor	f. An outside party is hired to plant and		
b. Cover crop termination costs	e. Planting or rolling equipment	manage my cover crops		
c. Greater nitrogen requirements	(modification, purchase, or rental)	g. Other costs:		
Č I		0		
What reductions in expenses do you attribute to the use of co				
a. Reduced insecticide inputs	d. Reduced labor, fuel, or equipment	g. Easier or faster harvest		
b. Reduced herbicide inputs	e. Less erosion or sedimentation repair	h. Reduced irrigation		
c. Reduced fertilizer inputs	f. Avoided drainage investments	i. Other reduction:		
What effect on farm income do you attribute to the use of cov	er crops? (Circle all that apply):			
a. Greater yields of cash crops	d. Access to cost share programs or	e. Other effect on income:		
b. Reduced yields of cash crops	incentives. Please list:			
c. Source of animal forage (use/sale)				
How would you describe the profitability of your cover crop pr a. Increases profitability	c. Neutral impact on profitability	d. Other impact on profitability:		
 a. Increases profitability b. Decreases profitability 	c. Neural impact on promability	u. Other impact on promability.		
Soil Amendment Practices: Do you apply any of the follo	wing to your farm fields? (Circle all that apply):			
a. Lime	c. Animal manure	f. Compost tea		
b. Vegetative mulch (e.g. straw, bark or	d. Biochar	g. Other amendments used:		
woodchips, leaf litter)	e. Compost			
How would you describe the profitability of your soil amendma. Increases profitabilityb. Decreases profitability	ent practices on your farm over the long term? (Circle only o c. Neutral impact on profitability	ne): d. Other impact on profitability:		
Weather Extremes: In your experience on your farm, ha				
	effects of drought on crop yields? (Circle all that apply):			
a. Reduced tillage b. Cover	crops c. Soil amendments	d. No experience to report		
improved drainage after heavy rainfall in ways	that minimize negative effects on crop yield or field access?	(Circle all that apply):		
a. Reduced tillage b. Cover		d. No experience to report		
reduced erosion losses due to heavy rainfall?				
a. Reduced tillage b. Cover	crops c. Soil amendments	d. No experience to report		
Final Section:				
Approximately what percent of your personal livelihood (mon	etary income and/or other resources) is supplied from your fa	arm? (Circle only one) [,]		
a. Less than 25% b. 25% t		d. More than 75%		
In how many of the last 5 years did your farm purchase crop	nsurance? (Circle only one):			
a. 0 b. 1 to 2	c. 3 to 4	d. 5		
Would you be willing to further discuss your soil health practic		representative? Yes / No		
If yes, please provide contact information here (Contact information will be kept confidential):				
Email:	Phone: ()			
Additional information or comments:				
/ waited at it to the table of COLUMERIES,				