

EVENT/Team: Tarping Workshop, NY		DATE: Nov 18,19	PLACE: Canandaigua, Voorheesville	
Objectives:				
<ul style="list-style-type: none"> • Improve understanding of how tarps can be used to overcome barriers to reducing tillage in vegetables while managing weeds and improving soil health • Identify specific changes each grower can make to farm management in the next year resulting in reduced tillage, better weed management, and greater profitability 				
What (Activity) When, duration	Why and What for (Goals)	How? Method	Whom?	With what? Materials-Resources
<p>Opening conversation and introductions</p> <p>45 minutes</p> <p>9-9:45</p>	<p>Introduce format of the day, and idea that each session will be a combination of presentation of new information and synthesis with existing information, with goal of helping farmers find new, viable solutions to challenges they face.</p> <p>Inventory current grower use and comfort with tarps and determine where we want to go with the day. Come to shared understanding of the day.</p>	<ul style="list-style-type: none"> • Table introductions: Who are you, what do you farm (5 min) • Small group discussion based on experience – tarping and not tarping (20 min) <p>Groups currently tarping, inventory tarping practices</p> <ul style="list-style-type: none"> • What practices have you used? • What benefits have you seen? • What are the main issues you are having? • What do you want to learn about most today? <p>Groups not tarping, inventory goals and concerns</p> <ul style="list-style-type: none"> • What practices would you like to try? • What benefits are you looking for? • What are your main concerns? • What do you want to learn about most today? <ul style="list-style-type: none"> • Large group- share practices, benefits and concerns (10 min) • Share what do you want to learn about today (5min). • Intro of the sections we will cover, and placement of ideas just shared within that (5 min) 	<p>Crystal with others circulating to help</p> <p>Facilitators pick tables to sit at (rotate)</p> <p>Crystal facilitates</p> <p>Anu records</p>	<p>Send to a table based on tarping or not tarping</p> <p>Post questions on powerpoint</p> <p>Record on large sheets</p> <p>Record on large sheets</p> <p>Reference handout with topics from registration</p>

	Why and What for (Goals)	How? Method	Whom?	With what? Materials-Resources
Tarps as a RT/NT management tool- substituting tarps for tillage 45 mins 9:45-10:30	Growers share/learn RT and no-till tarp strategies for bed preparation, strategies for tarps in rotation, before/after specific crops or crop type 1) <i>To what extent are tarps helping use RT</i> 2) <i>How can we manage them in tested/different/better ways to advance RT?</i>	<ul style="list-style-type: none"> • Research presentation with time for Q&A- reducing tillage on the farm with tarps – (30 min) • Discussion Breakout <i>(10 mins small groups, 5 mins large report back)</i> <ul style="list-style-type: none"> ▪ How would you like to use tarps to reduce tillage? ▪ What else do you need to have or know? 	Ryan all join breakout session Mark report back	Powerpoint Capture notes from reporting back on large sheets
Break 15 minutes 10:30-10:45				Coffee, snacks

<p>Weed Management</p> <p>1 hour 15 minutes</p> <p>10:45-12:00</p>	<p>Growers share/learn tarp methods for managing annual and perennial weed species, weed seed banks, and strategies for integrating with complementary weed management practices</p> <p>1) <i>How are tarps impacting weeds on the farm? Successes and problem weeds?</i></p> <p>2) <i>What tarping practices can be tried to improve weed management with less tillage?</i></p>	<ul style="list-style-type: none"> • Farmer + Research Presentation- role of tarping in managing weeds on the farm (30 minutes total) • Weed control intensive discussion – (20 min) <ul style="list-style-type: none"> ○ Choose a group for intensive management discussion: Perennial weeds, summer annuals, winter annuals <ul style="list-style-type: none"> ▪ Is it possible to control this weed tarping? ▪ What are the best times and techniques to use? ▪ What are your concerns in managing this weed with tarps? ▪ What practices combined with tarping can help? • Group discussion of BMP's for different weed types based on grower and researcher resources – (25 min) 	<p>Mark and Larisa (ENY)</p> <p>Mark and Aaron (CNY)</p> <p>Mark – summer Anu - perennial Ryan – summer or winter</p> <p>Crystal facilitates; Anu records</p>	<p>Powerpoint</p> <p>Make powerpoint slide with discussion questions, add to Ryan's talk</p> <p>Record key strategies on large sheets</p>
<p>Lunch</p> <p>45 minutes</p> <p>12:00-12:45</p>				

What (Activity) When and duration	Why and What for (Goals)	How? Method	Whom?	With what? Materials-Resources
<p>Tarps and soil building – combining tarps with soil management practices for greater soil benefits</p> <p>1 hour</p> <p>12:45-1:45</p>	<p>Knowledge gain - Growers share/learn tarp effects on soils, biological and physical processes, fate of soil nutrients and strategies for combining compost, mulch and/or cover crops for additive soil benefits</p> <ul style="list-style-type: none"> • <i>How can we use compost for bigger tarp benefits without overloading?</i> • <i>How can mulching be uses in combination with tarping for better soils?</i> • <i>What cover crop practices are working, what benefits are tarps providing and where are the opportunities for doing more?</i> 	<ul style="list-style-type: none"> • Farmer + Research presentation on tarping with compost, mulch, and cover crops and impacts on soils (30 min) <p>Participants choose a group for intensive discussion based on interest (20 mins)</p> <ul style="list-style-type: none"> • Compost discussion - <ul style="list-style-type: none"> ○ How are you using compost in combination with tarping? ○ Has it changed? How much and when are you applying? Incorporating? ○ What issues/questions do you struggle with? • Mulching discussion <ul style="list-style-type: none"> ○ How are you using or could you use mulch in combination with tarping? ○ Benefits/challenges? ○ What issues/questions do you struggle with? • Cover crop discussion <ul style="list-style-type: none"> ○ How are you using or could you use tarps to manage cover crops? ○ What are the primary benefits you are looking for from tarps? <ul style="list-style-type: none"> ▪ Discuss timing, establishment, termination, residue management and tillage ○ What issues/questions do you struggle with? <p>Large group report back on benefits and issues using tarps (10 mins)</p>	<p>Ryan and Jay Armour (ENY)</p> <p>Ryan and Liz (CNY)</p> <p>Mark</p> <p>Ryan</p> <p>Anu</p>	<p>Powerpoint</p> <p>Facilitators use these guiding questions</p> <p>Write on flip chart at table – two columns benefits and issues</p>
<p>Break</p> <p>15 minutes</p> <p>1:45-2:00</p>				<p>Coffee, snacks</p>

<p>Putting it all together – tarping in your rotation plan with reduced tillage 45 mins 2:00-2:45</p>	<p>Growers synthesize information and lay out field-level tarp management plans to integrate tarps in crop rotations, identify tarp windows (overwinter, early, mid-season), crops and outline logistics</p>	<p>15 min circle back to remaining issues on the wall</p> <p>10 minutes of independent work writing out potential plan</p> <p>10 minutes small group discussion</p> <p>10 minutes larger group discussion</p>	<p>Crystal facilitates, Everyone else circulate through groups. Ryan facilitate large group discussion</p>	<p>Ryan's worksheet</p>
<p>Wrap-up 15 minutes 2:45-3:00</p>	<p>Next steps, topics for follow-up webinars, and evaluations</p>			