

## Technology Adoption Cost Plan v1

The technology adoption cost plan is designed as a simple guide that growers may use to help compare costs using current practices and equipment to expected costs using new technologies. Growers can get more precise estimates if the technology is applied to trial acres before full adoption.

**Crop:** \_\_\_\_\_

**Field:** \_\_\_\_\_

**Acres:** \_\_\_\_\_

Variable Production Costs	Existing Technology		New Technology	
	Labor Hours	Machinery Hours	Labor Hours	Machinery Hours
Field Labor and Equipment Time				
Prepare land (e.g., plow, disk)				
Apply pre-plant amendments (e.g., lime, fertilizer, manure, compost)				
Prepare for planting (e.g., form beds, lay plastic, drip tape)				
Set transplants (e.g., set out, water, fertilize)				
Mechanically cultivate weeds _____ times (pre-plant, post plant)				
Hand-hoe weeds ( _____ times)				
Scout crop for pests ( _____ times)				
Spray pesticides _____ times (herbicides, insecticides, fungicides)				
Mow alleys, field edges ( _____ times)				
Irrigate _____ times (e.g., set up, manage drip, manage seepage)				
Harvest (e.g., pick, deliver to packing house)				
Post-harvest handling (e.g., wash, sort, pack, store)				
Field clean-up (e.g., remove plastic, till residues)				
Plant cover crops				
Hired specialty labor				
Hired consultants (e.g., data management and processing)				
Other				
Other				
Other				
<b>General Management Time</b>	<b>Existing Technology</b>		<b>New Technology</b>	
Repairs				

Training and Supervision				
Record Keeping				
Other:				
Other:				

**Total Production Labor & Machinery Costs**

\_\_\_\_\_ labor hours X \$ \_\_\_\_\_ average costs per hour = \$ \_\_\_\_\_

\_\_\_\_\_ machinery hours X \$ \_\_\_\_\_ average costs per hour = \$ \_\_\_\_\_

Total Labor and Machinery Cost = \$ \_\_\_\_\_ (Total Labor Cost + Total Machinery Cost)

Costs per acre = \$ \_\_\_\_\_

(Total Labor and Machinery Cost ÷ Field Acres)

<b>Materials Cost:</b>	<b>Existing Technology</b>	<b>New Technology</b>
Seeds or transplants	\$ _____	\$ _____
Compost	\$ _____	\$ _____
Fertilizers	\$ _____	\$ _____
Plastic mulch and drop tape	\$ _____	\$ _____
Cover crop seed	\$ _____	\$ _____
Stakes	\$ _____	\$ _____
Other:	\$ _____	\$ _____
Other:	\$ _____	\$ _____
Other:	\$ _____	\$ _____
Other:	\$ _____	\$ _____
Other:	\$ _____	\$ _____
<b>Total materials cost</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>Revenue:</b>	<b>Existing Technology</b>	<b>New Technology</b>
Yield		
Price × _____ units	\$ _____	\$ _____

**Net Returns = Total Revenue – Total Cost**

Existing Technology: \$ \_\_\_\_\_

New Technology: \$ \_\_\_\_\_

**Technology Adoption Cost Plan v2**

The use of new technology is a complicated decision. The technology adoption cost plan is designed as a simple guide that growers may use to help compare costs using current practices and equipment to expected costs using new technologies. Growers can use this table to weigh the pros and cons before adopting new technologies or practices.

**Crop:** \_\_\_\_\_

**Field:** \_\_\_\_\_

**Acres:** \_\_\_\_\_

Check the boxes below to indicate an expected increase or decrease in cost or hours with adoption of the new technology.

<b>Variable Production Costs</b>	<b>Increase Costs</b>	<b>Decrease Costs</b>	<b>Increase Hours</b>	<b>Decrease Hours</b>	<b>Labor Hours</b>	<b>Machinery Hours</b>
<b>Field Labor and Equipment Time:</b>						
Prepare land (e.g., plow, disk)						
Apply pre-plant amendments (e.g., lime, fertilizer, manure, compost)						
Prepare for planting (e.g., form beds, lay plastic, drip tape)						
Set transplants (e.g., set out, water, fertilize)						
Mechanically cultivate weeds _____ times (pre-plant, post plant)						
Hand-hoe weeds ( _____ times)						
Scout crop for pests ( _____ times)						
Spray pesticides _____ times (herbicides, insecticides, fungicides)						
Mow alleys, field edges ( _____ times)						
Irrigate _____ times (e.g., set up, manage drip, manage seepage)						
Harvest (e.g., pick, deliver to packing house)						
Post-harvest handling (e.g., wash, sort, pack, store)						
Field clean-up (e.g., remove plastic, till residues)						
Plant cover crops						
Hired specialty labor (e.g., )						
Hired consultants (e.g., data management and processing)						
Other:						
Other:						
Other:						
<b>Effect on General Management:</b>	<b>Increase Costs</b>	<b>Decrease Costs</b>	<b>Increase Hours</b>	<b>Decrease Hours</b>		
Repairs						
Training and Supervision						
Recordkeeping						
Other:						
Other:						

<b>Effect on Materials Cost:</b>	<b>Increase Cost</b>	<b>Decrease Cost</b>
Seeds or transplants		
Compost		
Fertilizers		
Plastic mulch and drop tape		
Cover crop seed		
Stakes		
Other:		
Other:		
Other:		
Other:		
Other:		
<b>Total materials cost</b>		

<b>Effect on:</b>	<b>Increase</b>	<b>Decrease</b>
Revenue		
Total Yield		
Total Costs		
Net Returns		