Pest Management (595) **OKLAHOMA**

Cost Data

Typical Implementation Scenario

595.1 Pest Mgt, sericea lespedeza control, chemical

Application of approved herbicides for control of sericea lespedeza according to the NRCS Pest Management (595) standard. Herbicides are applied broadcast either by air or ground application.

Data Source: Prior years actual cost data.

Geographic Area:	Statewide		
Unit for Cost Estimate:	Acre		
Practice Life (Years):	1		
Discount Rate (%/Year):	5%		**Cost/Unit**
Materials			$11.45
Chemical - costs vary depending on chemical used. Based on the most used chemicals and recommended rates, costs average $10 - $12 per acre.		$11.00	
Surfactant - costs vary but range from $.35 to .50 per acre		$0.45	
Equipment/Installation			$5.50
Tractor / Sprayer or custom application (aerial or ground)			
Labor			$0.00
Labor incorporated into equipment and installation cost			
Mobilization			$0.00
Included in Materials Cost			
Operation & Maintenance			$0.00
Depending on success of first application, follow-up treatments are typically needed.			
Acquisition of Technical Knowledge			$0.00
Education incorporated into materials cost (a certified pesticide applicators license may be required)			
Forgone Income			$0.00
No land taken out of production, no lost opportunity costs			
Risk			$0.00
None			
Administration & Permit Costs			$0.00
None			
Total Cost Estimate:			$16.95

Pest Management (595) **OKLAHOMA**

Cost Data

Typical Implementation Scenario

595.2 Pest Mgt, thistle control, chemical

Application of approved herbicides for control of musk or scotch thistle according to the NRCS Pest Management (595) standard. Herbicides are applied broadcast either by air or ground application.

Data Source: Prior years actual cost data.

Geographic Area:	Statewide		
Unit for Cost Estimate:	Acre		
Practice Life (Years):	1		
Discount Rate (%/Year):	5%		**Cost/Unit**
Materials			$8.35
Chemical - costs vary depending on chemical used. Based on the most commonly used chemicals and recommended rates, costs average $6 - $10 per acre.		$7.90	
Surfactant - costs vary but range from $.35 to .50 per acre		$0.45	
Equipment/Installation			$5.50
Tractor / Sprayer or custom application (aerial or ground)			
Labor			$0.00
Labor incorporated into equipment and installation cost			
Mobilization			$0.00
Included in Materials Cost			
Operation & Maintenance			$0.00
Depending on success of first application, follow-up treatments are typically needed.			
Acquisition of Technical Knowledge			$0.00
Education incorporated into materials cost (a certified pesticide applicators license may be required)			
Forgone Income			$0.00
No land taken out of production, no lost opportunity costs			
Risk			$0.00
None			
Administration & Permit Costs			$0.00
None			
Total Cost Estimate:			$13.85

Pest Management (595) **OKLAHOMA**

Cost Data

Typical Implementation Scenario

595.3 Integrated Pest Management

This practice consists of using an Integrated Pest Management (IPM) system that aids in the control and suppression of pests and reduces the overall use of pesticides by incorporating a combination of mechanical, cultural, and biological control measures. This practice establishes an IPM system that utilizes scouting and monitoring to determine when pest control is needed and a pesticide record keeping system that documents all aspects of the system (pest, location, dates, rates, control measure used, etc.).

Data Source: Producer and private crop consultants interviews

Geographic Area:	Statewide		
Unit for Cost Estimate:	Year		
Practice Life (Years):	1		
Discount Rate (%/Year):	5%		**Cost/Unit**
Materials			$100.00
Computer Software and equipment		$100.00	
Record Keeping Manual		$0.00	
Equipment/Installation			$125.00
Pest Identification Manuals and Handbooks		$100.00	
Insect Nets, Containers, etc		$25.00	
Labor			$480.00
Record Keeping and Computer Data Entry (16 hours @ $10/hour)		$160.00	
Scouting and Monitoring Pest Populations ($2/ac @ 160ac.)		$320.00	
Mobilization			$0.00
NA			
Operation & Maintenance			$0.00
NA			
Acquisition of Technical Knowledge			$60.00
An Oklahoma certified pesticide applicators license may be required ($50/5 years)		$10.00	
Education - Continuing Educational Units may be required for applicator's license ($250/5 years)		$50.00	
Forgone Income			$0.00
No land taken out of production, no lost opportunity costs			
Risk			$0.00
Reduced risk, improved water quality			
Administration & Permit Costs			$0.00
None			
Total Cost Estimate:			$765.00

Pest Management (595) **OKLAHOMA**

Payment Schedule Results
Cost Data

Typical Implementation Scenario
595.4 Crop Application System
This practice consists of using new and improved technology in pesticide applications to control pests and reduce the overall use of pesticides. This practice includes the use of Real Time Kinematic satellite navigation (RTK) level of GPS for auto steer and auto boom control to reduce sprayer overlap and/or sensor technology that identifies weeds and activates sprayer application on demand.

Data Source: OSU Custom Farm Rates and previous cost share data

Geographic Area:	Statewide		
Unit for Cost Estimate:	Acre		
Practice Life (Years):	1		
Discount Rate (%/Year):	5%		**Cost/Unit**
Materials			$0.00
Equipment/Installation			$5.50
Private or commerical application (aerial or ground)		$5.50	
Labor			$0.00
Included in Equipment/Installation			
Mobilization			$0.00
NA			
Operation & Maintenance			$0.00
NA			
Acquisition of Technical Knowledge			$0.00
Knowledge to management and operate auto system			
Forgone Income			$0.00
No land taken out of production, no lost opportunity costs			
Risk			$0.00
None			
Administration & Permit Costs			$0.00
None			
Total Cost Estimate:			$5.50

Pest Management (595) **OKLAHOMA**

Cost Data

Typical Implementation Scenario

595.5 Mechanical Weed Control

This practice consists of using mechanical tillage to control weeds prior to grass planting.

Data Source: Prior years actual cost data.

Geographic Area:	Statewide	
Unit for Cost Estimate:	Acre/Trip	
Practice Life (Years):	1	
Discount Rate (%/Year):	5%	**Cost/Unit**
Materials NA		$0.00
Equipment/Installation Tractor/Equipment/Labor		$8.50
Labor Included in Equipment Cost.		$0.00
Mobilization Included in Equipment Cost		$0.00
Operation & Maintenance NA		$0.00
Acquisition of Technical Knowledge Education incorporated into materials cost		$0.00
Forgone Income No land taken out of production, no lost opportunity costs		$0.00
Risk None		$0.00
Administration & Permit Costs None		$0.00
Total Cost Estimate:		$8.50

Pest Management (595) **OKLAHOMA**

Cost Data

Typical Implementation Scenario

595.6 Knockdown Herbicide

This practice consists of using a non-selective contact herbicide to kill existing competing cover prior to planting grass and or forbs / legumes. The most common use is when converting stands of monocultures to native grasses.

Data Source: Prior years actual cost data.

Geographic Area:	Statewide	
Unit for Cost Estimate:	Acre/Trip	
Practice Life (Years):	1	
Discount Rate (%/Year):	5%	**Cost/Unit**
Materials		$0.00
Inlcuded in costs with equipment and / labor.		
Equipment/Installation		$11.00
Equipment, Labor, costs of herbicide and application.		
Labor		$0.00
Included in Equipment Cost.		
Mobilization		$0.00
Included in Equipment Cost		
Operation & Maintenance		$0.00
NA		
Acquisition of Technical Knowledge		$0.00
Education incorporated into materials cost		
Forgone Income		$0.00
No land taken out of production, no lost opportunity costs		
Risk		$0.00
None		
Administration & Permit Costs		$0.00
None		
Total Cost Estimate:		$11.00