



Example

Residue Management, Seasonal (344)

Conservation Practice Jobsheet

Natural Resources Conservation Service

Pacific Islands Area



Definition

Managing the amount, orientation, and distribution of crop and other plant residues on the soil surface during a specified period of the year, while planting annual crops on a clean-tilled seedbed, or when growing biennial or perennial seed crops.

Purpose

- Reduce sheet and rill erosion.
- Reduce soil erosion from wind and associated airborne particulate matter.
- Improve Soil Condition.
- Reduce off-site transport of sediment, nutrients or pesticides.
- Provide food and escape cover for wildlife.

Conditions Where Practice Applies

This practice applies to all cropland that uses full-width clean tillage to establish crops.

Seasonal residue management includes managing residues of annual crops from harvest until the residue is:

- Buried by tillage for seedbed preparation
- Removed by grazing, or
- Mechanically removed

It also includes the management of residues from biennial or perennial seed crops from the time of seed harvest until regrowth begins the next season.

Conservation Management System

Residue Management, Seasonal is normally implemented as part of a conservation management system to address the soil, water, air, plant, and animal needs, including wildlife, and the client's objectives.

Plans and Specifications

Specifications for establishment of this practice shall be prepared for each field or treatment unit according to the Criteria described in the Pacific Islands Area (Code 484) Conservation Practice Standard.

The following section of this Jobsheet includes the specifications for the establishment of the practice on your farm or ranch.

Residue Management, Seasonal – Jobsheet

Jobsheet Prepared for			
Client/Customer Name:	<i>Bob Farmer</i>		Plan Name: <i>Consplan 1</i>
Tracts No.(s)	Land Unit No.(s)	Total Land Unit Size	Amount of Practice to be Installed/Land Unit
<i>1001</i>	<i>1A</i>	<i>5 acres</i>	<i>1 acre</i>
Jobsheet Prepared by			
Name:	<i>Tom Planner</i>	Title:	<i>Soil Conservationist</i>
		Date Prepared:	<i>7/4/09</i>

Purpose for Client Installing Practice (“P” primary purpose and “S” secondary purposes, if any)	
<i>P</i>	Reduce sheet and rill erosion.
	Reduce soil erosion from wind and associated airborne particulate matter.
	Improve soil condition.
<i>S</i>	Reduce off-site transport of sediment, nutrients or pesticides.
	Provide food and escape cover for wildlife.

Current Site Conditions
Description of current site conditions including: land use, crops and/or vegetation, ground cover and slope, resource problem and extent per practice purpose identified above, and any other pertinent site conditions.
<i>Land use: cropland, corn.</i>
<i>Slope: very flat, less than 5% slopes.</i>
<i>Current sheet and rill soil erosion: 10 tons/acre/year or 2T. Land susceptible to erosion during crop fallow periods.</i>
<i>Stream located west of farm.</i>

Measures to be Implemented
Description of the practice measures to be implemented:
<i>Residue from the corn crop will be left on the field and managed for a period of three weeks until it is buried by tillage for seedbed preparation for the following crop.</i>

General Requirements Applicable to All Purposes
All residues shall be uniformly distributed over the entire field.
Combines or similar harvesting machines shall be equipped with spreaders capable of redistributing residues over at least 80 percent of the working width of the header.
Residues shall not be burned.
Tillage operations during the residue management period shall be limited to undercutting tools such as blades or wide sweeps that minimize residue flattening or burial.

Additional Requirements to Reduce Sheet and Rill Erosion and Erosion from Wind
Soil loss objective to be met (tolerance (T) or other planned soil loss objective): <i>5 tons/acre/year or T.</i>
Type of crop or plant residue to be managed: <i>Corn stalks</i>
Minimum amount of residue required to achieve soil loss objective (% of soil surface covered and/or pounds of residue required per acre): <i>30% soil surface covered.</i>
Period(s) during which residue shall be maintained: <i>3 weeks minimum.</i>
Orientation of residue (standing or flat): <i>Flat.</i>
Partial removal of residue by means such as baling, grazing, or other harvest methods shall be limited to retain the amount needed to meet the erosion reduction objective. The remaining residue shall be maintained on the surface through periods when erosion has the potential to occur, or until planting, whichever occurs first. If partial removal of residue is planned, amount of residue which may be removed or must be maintained and means or method of removal to be used: <i>No partial removal planned.</i>
Any tillage that occurs during the management period shall be limited to methods that maintain the planned cover conditions. If tillage is planned during the management period, tillage method to be used: <i>A blade type undercutting tool will be used and wide sweeps that minimize residue flattening or burial.</i>
Additional site-specific requirements to achieve specific purpose: <i>None.</i>

Additional Requirements to Reduce Off-site Transport of Sediment, Nutrients or Pesticides
Type of crop or plant residue to be managed: <i>See above requirements for reducing sheet and rill erosion.</i>
Minimum amount of residue required to reduce off-site movement of agricultural chemicals and sediment (% of soil surface covered and/or pounds of residue required per acre):
Orientation of residue (standing or flat):
Period(s) during which residue shall be maintained:
Additional site-specific requirements to achieve specific purpose:

Operation and Maintenance
No general operation and maintenance requirements have been identified for this practice. Site-specific operation and maintenance requirements, if any: <i>None.</i>

Practice Location	
The practice location is shown on the following document: ("X" below)	
x	On the conservation plan map located in conservation plan file folder.
	On another job sketch, drawing, map, photo. Name:

Job Sketch
The following job sketches, drawings, maps, and/or photographs have been prepared to assist with practice implementation, operation and maintenance. Type of information which may be shown includes: treatment area, type of residue to be managed, orientation or height of residue, etc. (The empty box below may be used to create a job sketch or to insert a job sketch file. Separate job sketch documents should be stapled to this Jobsheet.)

<i>Example job sketch not available.</i>
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Practice Approvals

This section documents the practice approvals and the client's acknowledgement of his/her responsibilities.

Job Approval Authority	
NRCS policy requires that the practice inventory and evaluation (I&E) data, design, and installation be approved by a NRCS or partner employee with the required Job Approval Authority (JAA) or higher.	
Required Job Approval Authority for Practice (Enter Job Class I-V.): (Refer to Ecological Practice JAA Worksheet)	Required JAA (I-V) II

Practice I&E and Design Approvals				
Practice Approvals for	Print Name	Signature	Date	JAA of Approver (I-V)
Inventory and Evaluation*	<i>Bill Technician</i>	<i>Bill Technician</i>	6/15/09	II
Design**	<i>Tom Planner</i>	<i>Tom Planner</i>	7/5/09	III

* The inventory and evaluation data needed to design the practice is adequate and accurate.

** The practice "design" (job specifications - requirements for installation, operation, and maintenance) as documented in this Jobsheet has been prepared in accordance with the Conservation Practice Standard.

Client's Acknowledgement (To be completed after practice I&E and design have been approved.)		
By signing below, I acknowledge that I:		
<ul style="list-style-type: none"> • have reviewed this Jobsheet and have an understanding of its contents and requirements; • will make no changes to this Jobsheet, without prior concurrence of NRCS; • will install, operate, and maintain this practice in accordance with this Jobsheet; and • will obtain all necessary permits and/or rights, comply with all ordinances and laws, and notify all utilities pertaining to the installation, operation, and maintenance of the practice. 		
Print Name	Signature	Date
<i>Bob Farmer</i>	<i>Bob Farmer</i>	7/10/09

Practice Layout Notes (Description of pre-installation layout assistance (staking and layout, conference, design modification, etc.) provided to the client, if any.)			
Description of Assistance Provided:	<i>Conference with farmer to review installation.</i>		
Assistance Provided by:	Print Name	Signature	Date
	<i>Tom Planner</i>	<i>Tom Planner</i>	7/15/09

Practice Checkout Notes (Documentation of field check done and/or records obtained from the client to determine the amount installed and actual materials and methods used.)			
Amount installed:	<i>1 acre</i>		
Was the practice installed in accordance with the job specifications in this Jobsheet? If no, how did it differ?	Yes.		
Method of checkout used? (field check and/or records from client)	<i>Field check</i>		
Checkout Completed by:	Print Name	Signature	Date
	<i>Bill Technician</i>	<i>Bill Technician</i>	8/1/09

Practice Installation Approval (To be completed after practice checkout.)				
Practice Approval for	Print Name	Signature	Date	JAA of Approver (I - V)
Implementation*	<i>Mike Smith</i>	<i>Mike Smith</i>	8/15/09	III

* The practice has been installed in accordance with the job specifications in this Jobsheet, as verified by the practice checkout notes.