Technical Guide
Section III-A-2
Part 2

Alamogordo Field Office
RESOURCE MANAGEMENT SYSTEMS
Irrigated Cropland Guide Sheet
Resource Data

MLRA - 70 Canadian Plains & Valleys

Soils - all in WEG 4,4L,6,8
WEQ
T-5
C-60
I-86 or less

The following alternatives are acceptable provided the minimum specified residues are managed as indicated in the Management Requirements section. The Critical Wind Erosion period is February through April.

Irrigated Cropland Alternatives

Alternative 1: APPLE & CHERRY ORCHARDS - Continuously in orchard.

Minimum crop residue amount--2500 pounds of ground cover, ie. grass, clover, etc.

Alternative 2: IRRIGATED PASTURE - Continuously in pasture.

Minimum crop residue amount--2500 pounds of grass residue.

Alternative 3: ANY CROP - Continuously in crops with comparable levels.

of protection. Use WEQ to insure that erosion estimates are less than "T".

IMPORTANT: THE OTHER 5 RESOURCE CONCERNS MUST BE ADDRESSED IF AN RMS IS GOING TO BE DEVELOPED.

Management Requirements

Residue must equal or exceed 2500 pounds to maintain soil tilth. Soil will be tilled to control wind erosion as often as necessary. Tillage should be unnecessary when minimum residue amounts are maintained during the windy season.

Otero SWCD	6/7/88 DATE
District Conservationist	6/7/88 DATE
Area Conservationis	6-13-88 DATE
State Conservationist	7/7/88 DATE

Technical Guide
Section III-A-2
Part 2

Alamogordo Field Office
Resource Management System
Irrigated Cropland Guide Sheet
Resource Data

MLRA - 42 Southern Desertic Basins, Plains & Mountains

Soils - all in WEG 3,4,4L,5,6,7
WEQ
T-5
C-80
I-86 or less

The following alternatives are acceptable provided the minimum specified residues are managed as indicated in the Management Requirements section. The Critical Wind Erosion period is February through April.

Irrigated Cropland Alternatives

Alternative 1: PECAN 7 PISTACHIO ORCHARDS (>7 YEARS OLD)- Continuously in orchard.

Minimum crop residue amounts--2500 pounds of tree litter.

Alternative 2: CHRISTMAS TREES (>4 YEARS OLD) - Continuously in orchard.

Minimum crop residue amount--2500 pounds of tree cuttings and litter.

Alternative 3: SMALL GRAIN - Continously in small grain.

Minimum crop residue amount--2500 pounds of residue.

Alternative 4: ALFALFA-5 YEARS; SMALL GRAIN-1 YEAR; SORGHUM SUDAN-1 YEAR

Minimum flat crop residue amounts:
Alfalfa 2500 pounds of residue
Small grain - 2500 pounds of residue
Sorghum sudan - 2500 pounds of residue.

Alternative 5: SMALL GRAIN-1 YEAR; SORGHUM SUDAN-1 YEAR

Minimum flat crop residue amount:
Small grains - 2500 pounds of residue
Sorghum sudan - 2500 pounds of residue

Alternative 6: IRRIGATED PASTURE - Continuously in pasture.

Minimum crop residue amount --2500 pounds of residue.

Alternative 7: ANY CROP - Continuously in crops with comparable levels of protection. Use WEQ to insure that erosion estimates are less than "T".

IMPORTANT: THE OTHER 5 RESOURCE CONCERNS SHOULD BE ADDRESSED IF AN RMS IS GOING TO BE DEVELOPED.

Management Requirements

Residue must equal or exceed 2500 pounds to maintain soil tilth. Soil will be tilled to control windy erosion as often as necessary. Tillage should be unnecessary when minimum residue amount are maintained during the windy season.

Approved by:

Karl Sonde Otero SWCD	6/7/88 DATE
Dan C. Alessandri District Conservationist	6/7/88 DATE
Richard P. Smith Area Conservationist	6-13-88 DATE
Gary Margo Jr. State Conservationist	7/7/88 DATE

Technical Guide
Section III-A-2
Part 2

Alamogordo Field Office
Resource Management System
Irrigated Cropland Guide Sheet
Resource Data

MLRA - 39 Arizona & New Mexico Mountains

Soils - all in WEG 4,4L,6,8
WEQ
T-5
C-60
I-86 or less

The following alternatives are acceptable provided the minimum specified residues are managed as indicated in the Management Requirements section. The Critical Wind Erosion period is February through April.

Irrigated Cropland Alternatives

Alternative 1: APPLE ORCHARDS - Continuously in orchard.

Minimum crop residue amount--2500 pounds of ground cover, ie. grass, clover, etc. This will meet the cropping sequence specification for an RMS for all irrigated soils because it has a cover crop between trees.

Alternative 2: IRRIGATED PASTURE - Continuously in pasture.

Minimum crop residue amount 2500 pounds of grass residue. This will meet the cropping sequence specification for a RMS for all irrigated soils.

Alternative 3: ANY CROP - Continuously in crops with comparable levels of protection. Use WEQ to insure that erosion estimates are less than "T".

IMPORTANT: THE OTHER 5 RESOURCE CONCERNS SHOULD BE ADDRESSED IF AN RMS IS GOING TO BE DEVELOPED.

MANAGEMENT REQUIREMENTS

Residue must equal or exceed 2500 pounds to maintain soil tilth. Soil will be tilled to control wind erosion as often as necessary. Tillage should be unnecessary when minimum residue amounts are maintained during the windy season.

Otero SWCD	6/7/88 DATE
District Conservationist	6/7/88 DATE
Area Conservationist	6-13-88 DATE
State Conservationist	7/7/88 DATE

Carlsbad Field Office
Irrigated Cropland Guide Sheet
Resource Data

MLRA - 42
Soils - All in WEG 3, 4, 4L,5, 6, 7

WEQ	USLE
C-200	R-80
I-86 or less	K-.55

The following alternatives are acceptable regardless of the tillage method used provided the minimum specifed amounts of residue are managed as indicated in the management requirements section. Critial windy season is Feb. 1 to April 15.

Irrigated Cropland Alternatives *

Alternative 1: Cotton 1 year, Alfalfa 4 years, Small Grains 1 year

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 550 pounds
Small grains - 750 pounds

Alternative 1 would meet the cropping sequence specs. in an RMS for the following mapping units:

Rt, Up, Ut, and An

Alternative 2: Cotton 3 years, Alfalfa 4 years

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 550 pounds

Alternative 2 would meet the cropping sequence specs. in an RMS for the following mapping units:

At, Rn, Rv, and Rf

Alternative 3: Cotton 3 years, Alfalfa 4 years, Small Grains 1 year

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 550 pounds
Small grains - 750 pounds

Alternative 3 would meet the cropping sequence specs. in an RMS for the following mapping units:

At, Rn, Rv, and Rf

Alternative 4: Cotton 2 years, Alfalfa 4 years

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 440 pounds

Alternative 4 would meet the cropping sequence specs. in an RMS for the following mapping units:

Kv, Pn, Rr, and Rl

Alternative 5: Cotton 2 years, Alfalfa 4 years, Small Grains 1 year

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 550 pounds
Small grains - 750 pounds

Alternative 5 would meet the cropping sequence specs. in an RMS for the following mapping units:

Kv, Pn, Rr, and Rl

Alternative 6: Cotton 2 years, Alfalfa 4 years, Haygrazer 1 year

Minimum Crop Residue Amounts: Cotton - 550 pounds
Alfalfa - 550 pounds
Haygrazer- 700 pounds

Alternative 6 would meet the cropping sequence specs. in an RMS for the following mapping units:

Kv, Pn, Rr, and Rl

Alternative 7: Cotton 2 years, Alfalfa 3 years

Minimum Crop Residue Amounts: Cotton - 925 pounds
Alfalfa - 550 pounds

Alternative 7 would meet the cropping sequence specs. in an RMS for the following mapping units:

Kv, Pn, Rr, and Rl

Alternative 8: Any rotation with comparable level of protection (Use WEQ and USLE to ensure that erosion losses are less than "T").

IMPORTANT: The other 5 management concers must be address if an valid RMS is going to be developed.

* All residue amounts shown are in lbs/ac air dry residue.

Management requirements:

Alfalfla - Leave the minimum specified amounts of residue on the soil surface during the blow season.

Cotton - Leave the minimum specified amounts of standing residue in th field until April 1 or as near planting time as possible. When plowdown is required, leave the soil in a ridged and cloddy condition until planting time.

Small grain - Leave the minimum specifed amounts of growing small grain on the soil surface during the blow season.

Forage Sorghum (Haygrazer) - Leave the minimum specified amounts of standing residue in the field until April 1 or as near planting time as possible.

Idle land - When land will be idle during the blow season, the minimum amounts pf residue from the preceding crop will remain on the soil surface until the land is to be prepared for the next crop.

James R. Beard	6-3-88
SWCD	Date
William H. Lee	6-3-88
District Conservationist	Date
Richard J. Smith	6-13-88
Area Conservationist	Date
Gary Margo Jr.	7/7/88
State Conservationist	Date