Mountainair Field Office

Irrigated Cropland Guide Sheet

Resource Data

MLRA - 70
Soils - all in WEG 3,4,4L,5,6,7

T=4

WEQ	USLE
C - 120	R - 50
I - 86 or less	K - .37

The following alternatives are acceptable regardless of the tillage method used provided the minum specified amounts of residue are managed as indicated in the Management requirements section. The Critical windy period is Feb. - May.

Irrigated Cropland Alternatives *

Alternative 1: Alfalfa 8 years, Corn (silage) 2 years, Corn (grain) 2 year, Small Grain 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (silage) - 600 pounds
Corn (grain) - 1300 pounds
Small Grain - 400 pounds

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

WN, Wn, Wo, Cn, CO, Wp, HP, OP

Alternative 2: Alfalfa 6 years, Corn (silage) 1 years, Corn (grain) 1 year, Small grains 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (silage) - 600 pounds
Corn (grain) - 1300 pounds
Small Grain - 400 pounds

A rnative 2 would meet the cropping sequence specs. in an
I for the following mapping units:

LB, Wr, He, Ws, Ih, Hg, Wh, Wk, WL, Wl, Pd, Pe, Ma

Alternative 3: Any rotation with comparable levels of protection. (Use WEQ and ULSE to ensure that erosion estimates are less than "T".)

* l crop residue amounts shown are lbs./acre air dry residue.

** Addition reductions in estimated erosion rates may be achieved thru the application of manure to corn ground which is a common practice.

Management Requirements:

Alfalfa: Leave a minimum of 4 inches of standing stubble during the blow season.

Corn Silage: Leave a minimum anount of residue (6 inch standing stubble) on the soil surface until April 1 or as near planting time as possible.

Corn Grain: Leave the corn stalks standing as near to planting time as possible.

Wheat: Leave the minimum specified amounts of growing small grain or standing stubble during the blow season.

IMPORTANT: The other 5 resource concerns should be addressed if an RMS is going to be developed.

Approved by:

Roy V. Cain Claunch-Pinto SWCD	6/13/88 Date
Marvin Miller District Conservationist	6/13/88 Date
Richard J. Smith Area Conservationist	6/13/88 Date
Gary Margosh State Conservationist	7/7/88 Date

Mountainair Field Office
Irrigated Cropland Guide Sheet
Resource Data

MLRA - 70
Soils - all in WEG 3,4,4L,5,6,7

T=5

WEQ	USLE
C - 120	R - 50
I - 86 or less	K - .37

The following alternatives are acceptable regardless of the tillage method used provided the minimum specified amounts of actual residue are managed as indicated in the Management requirements section. Critical Wind erosion season is Feb. - May.

Irrigated Cropland Alternatives *

Alternative 1: Alfalfa 8 years, Corn (grain) 2 years, Corn (silage) 1 year, Potatoes 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (grain) - 1300 pounds
Corn (silage) - 600 pounds
Potatoes - 200 pounds

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

WN, Wn, Wo, Cn, CO, Wp, HP, OP

Alternative 2 **: Alfalfa 6 years, Corn (silage) 3 years, Corn (grain) 2 year, Small grains 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (grain) - 1300 pounds
Corn(silage) - 600 pounds
Small Grain - 400 pounds

Alternative 2 would not meet the cropping sequence specs. in an RMS.

Alternative 3: Alfalfa 8 years, Corn (silage) 2 years, Beans 1 year, Small grains 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (silage) - 600 pounds
Beans - 200 pounds
Small Grain - 400 pounds

Alternative 3 would not meet the cropping sequence specs. in an RMS.

Alternative 4: Alfalfa - 8 years, Corn (silage) - 2 year, Corn (grain) - 2 y ·s, Small grains - 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (grain) - 1300 pounds
Corn (silage) - 600 pounds
Small Grains - 400 pounds

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

WN, Wn, Wo, Cn, CO, Wp, HP, OP

Alternative 5: Alfalfa - 5 years, Corn (silage) - 2 year, Corn (grain) - 2 years, Small grains - 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (grain) - 1300 pounds
Corn (silage) - 600 pounds
Small Grains - 400 pounds

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

WN, Wn, Wo, Cn, CO, Wp, HP, OP

Alternative 6 **: Alfalfa - 8 years, Corn (silage) - 2 year, Idle - 1 years, Small grains 1 year

Minimum Crop Residue Amounts: Alfalfa - 1600 pounds
Corn (silage) - 600 pounds
Idle - 200 pound
Small Grain - 400 pounds

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

WN, Wn, Wo, Cn, CO, Wp, HP, OP

Alternative 7: Any rotation with comparable levels of protection. (Use WEQ and USLE to ensure that erosion estimates are less than "T".)

* All residue amounts shown are in lbs/acre air dry residue

** Addition reductions in estimated erosion rates may be achieved thru the application of manure to corn ground which is a common practice.

Management Requirements:

Alfalfa: Leave a minimum of 4 inches of standing stubble during the blow season.

C Silage: Leave a minimum amount of residue (6 inch standing stubble) on ı soil surface until April 1 or as near planting time as possible.

Corn Grain: Leave the corn stalks standing as near to planting time as possible.

Wheat: Leave the minimum specified amounts of growing small grain or standing stubble during the blow season.

TG Section III-A-2 Conservation Resource Mgmt. Systems - Part 2
Mountainair Field Office

Potatoes, Beans and other vegetables: If a cover crop cannot be planted, l[illegible]e the soil in a ridged cloddy condition.

Idle Land: Leave the standing stubble from the preceding crop and the volunteer annuals during the blow season. Manage so that idle land is always preceded by a high residue crop.

IMPORTANT: The other 5 resource concerns should be addressed if an RMS is going to be developed.

Approved by:

Roy N. Cain	6/13/88
Claunch-Pinto SWCD	Date
Marcus Miller	6/13/88
District Conservationist	Date
Richard D. Smith	6/13/88
Area Conservationist	Date
Ray Marquez Jr.	7/7/88
State Conservationist	Date