Roswell 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. to May.

Irrigated Cropland Alternatives *

Alternative 1: Cotton 2 years, Alfalfa 5 years, Wheat 1 year

Minimum Crop Residue Amounts: Cotton - 1800 pounds
Alfalfa - 70 pounds
Small grains - 1000 pounds

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

PfA, AtA, RkA, Bh, Bd

Alternative 2: Cotton 3 years, Alfalfa 4 years,
Corn (silage) 2 years

Minimum Crop Residue Amounts: Cotton - 1800 pounds
Alfalfa - 700 pounds
Corn (silage) - 1500 pounds

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

AaA, BgA, Gf, GbA, HaA, ReA*, Ge, Ra, AaB, BgB, ReB*, RgB, Rg, RkB, AtB *mapping unit symbols used in North and South Chaves Soil Surveys.

Alternative 3: Wheat 3 years, Idle Land 1 year,
Cotton 2 years

Minimum Crop Residue Amounts: Wheat - 1200 pounds
Idle Land - 800 pounds
(wheat residue 550 pounds
plus 250 pounds residue
from annuals)
Cotton - 1800 pounds

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

PfA, AtA, RkA, Bh, Bd

Alternative 4: Cotton 4 years, Wheat 3 years

Minimum Crop Residue Amounts: Cotton - 1800 pounds
Wheat - 1500 pounds

Alternative 4 does not meet the cropping sequence spec. for an RMS.

Alternative 5: Cotton 4 years, Alfalfa 4 years, Wheat 1 year, Idle land 1 year

Minimum Crop Residue Amounts: Cotton - 1800 pounds
Alfalfa - 700 pounds
Wheat - 1200 pounds
Idle Land - 800 pounds
(wheat residue 550 pounds plus 250 pounds residue from annuals)

Alternative 5 does not meet the cropping sequence spec. for an RMS.

Alternative 6: Cotton 3 years, Alfalfa 4 years, Wheat 1 year, Idle land 1 year

Minimum Crop Residue Amounts: Cotton - 1800 pounds
Alfalfa - 700 pounds
Wheat - 1200 pounds
Idle Land - 800 pounds
(wheat residue 550 pounds plus 250 pounds residue from annuals)

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

AaA, BgA, Gf, GbA, HaA, ReA*, Ge, Ra, AaB, BgB, ReB*, RgB, Rg, RkB, AtB *mapping unit symbols used in North and South Chaves Soil Surveys.

Alternative 7: Alfalfa 4 years, Corn 2 years, Cotton 2 years, Idle land 1 year

Minimum Crop Residue Amounts: Alfalfa - 700 pounds
Corn - 1500 pounds
Cotton - 1800 pounds
Idle Land - 1750 pounds
(corn residue 1500 pounds plus 250 pounds residue from annuals)

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

PfA, AtA, RkA, Bh, Bd

Alternative 8: Alfalfa 4 years, Cotton 2 years, Wheat 1 year, Idle land 1 year

Minimum Crop Residue Amounts: Alfalfa - 700 pounds
Cotton - 1800 pounds
Wheat - 1200 pounds
Idle Land - 800 pounds
(wheat residue 550 pounds plus 250 pounds residue from annuals)

Alternative 8 would meet the cropping sequence specs. in an RMS for the following mapping units:

PfA, AtA, RkA, Bh, Bd

Alternative 9: Alfalfa 4 years, Cotton 2 years, Grain sorghum 2 years

Minimum Crop Residue Amounts: Alfalfa - 700 pounds
Cotton - 1800 pounds
Grain sorghum - 1250 pounds

Alternative 9 would meet the cropping sequence specs. in an RMS for the following mapping units:

PfA, AtA, RkA, Bh, Bd

Alternative 10: Any rotation with comparable level of protection (Use WEQ and USLE to ensure that erosion losses are less than "T").

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

Management requirements:

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

Alfalfa - Leave the minimum specified amounts of stamding 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.

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

Corn (silage) - 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 of residue from the preceding crop will remain on the soil surface until the land is to be prepared for the next crop.

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

Approved by:

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