

TG SECTION III - A-2 - BASIC CONSERVATION SYSTEMS-PART 2

ARTESIA FIELD OFFICE

IRRIGATED CROPLAND GUIDE SHEET

RESOURCE DATA

MLRA - 42

SOILS - ALL IN WEG 3 or higher

STANDARD WEQ FACTORS USED - I = 86 or less; L = 1500' or less; C 200 or less and the wind erosion season is Feb.-May.

THE FOLLOWING ALTERNATIVES ARE ACCEPTABLE REGARDLESS OF THE TILLAGE METHOD USED PROVIDED THE CROP RESIDUES AND/OR GROWING CROPS ARE MANAGED AS INDICATED IN THE MANAGEMENT REQUIREMENTS SECTION AS NEEDED DURING THE CRITICAL WIND EROSION SEASON.

IRRIGATED CROPLAND ALTERNATIVES

ALTERNATIVE 1: ALFALFA 5 YEARS, COTTON 1 YEAR, SMALL GRAINS 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
SMALL GRAINS - 900 POUNDS

ALTERNATIVE 2: ALFALFA 5 YEARS, COTTON 2 YEARS, SMALL GRAINS 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
SMALL GRAINS - 900 POUNDS

ALTERNATIVE 3: ALFALFA 5 YEARS, COTTON 3 YEARS, SMALL GRAINS 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
SMALL GRAINS - 900 POUNDS

BCS- pg.2
5/5/88

ALTERNATIVE 4: ALFALFA 5 YEARS, COTTON 4 YEARS, SMALL
GRAINS 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
SMALL GRAINS - 900 POUNDS

ALTERNATIVE 5: ALFALFA 5 YEARS, CHILE 1 YEAR, COTTON 2
YEARS, SMALL GRAINS 1 YEARS, FALLOW 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
CHILE - 1000 POUNDS
COTTON FOLLOWING CHILE - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
SMALL GRAINS - 900 POUNDS
FALLOW - 1250 POUNDS

ALTERNATIVE 6: ALFALFA 5 YEARS, CHILE 2 YEARS, CORN 2
YEARS, SMALL GRAINS 1 YEAR, FALLOW 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
CHILE - 1000 POUNDS
CORN - 1500 POUNDS
SMALL GRAINS - 900 POUNDS
FALLOW - 1250 POUNDS

ALTERNATIVE 7: ALFALFA 5 YEARS, COTTON 2 YEARS, MILO
2 YEARS, SMALL GRAINS 1 YEAR, FALLOW 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
MILO - 1500 POUNDS
SMALL GRAINS - 900 POUNDS
FALLOW - 1250 POUNDS

ALTERNATIVE 8: IMMATURE PECAN ORCHARDS (WITH VEGETATION
BETWEEN ROWS) 6 YEARS, MATURE PECAN ORCHARDS
(CLEAN FALLOW) 6 YEARS

MINIMUM CROP RESIDUE AMOUNTS:

IMMATURE ORCHARDS - 1500 POUNDS
MATURE ORCHARDS - 850 POUNDS

ALTERNATIVE 9: ALFALFA 5 YEARS, COTTON 2 YEARS, SMALL
GRAINS 1 YEAR, FALLOW 1 YEAR, SPRING
PLANTED VEGETABLES 1 YEAR

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA - 1100 POUNDS
COTTON FOLLOWING ALFALFA - 1000 POUNDS
COTTON FOLLOWING COTTON - 1600 POUNDS
SMALL GRAINS - 900 POUNDS
FALLOW - 1250 POUNDS
VEGETABLES - 350 POUNDS

ALTERNATIVE 10: ALFALFA/PASTURELAND 7 YEARS, CORN/MILO
2 YEARS, SMALL GRAINS 2 YEARS

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA/PASTURELAND - 1100 POUNDS
CORN/MILO - 1500 POUNDS
SMALL GRAINS - 900 POUNDS

ALTERNATIVE 11: ALFALFA/PASTURELAND 7 YEARS, SMALL GRAINS
4 YEARS

MINIMUM CROP RESIDUE AMOUNTS:

ALFALFA/PASTURELAND - 1100 POUNDS
SMALL GRAINS - 900 POUNDS

ALTERNATIVE 12: ANY ROTATION WITH COMPARABLE LEVELS OF
PROTECTION.

*ALL RESIDUE AMOUNTS SHOWN ARE POUNDS/ACRE AIR DRY RESIDUE.

MANAGEMENT REQUIREMENTS

CHILE - LEAVE THE SPECIFIED AMOUNTS OF STANDING RESIDUE ON
THE SOIL SURFACE UNTIL TILLAGE OPERATIONS FOR THE NEXT CROP
BEGINS. AFTER THIS NO RESIDUE IS REQUIRED IF THE LAND IS
PLANTED, PLOWED, OR LISTED AND IRRIGATED.

COTTON - LEAVE THE MINIMUM SPECIFIED AMOUNTS OF STANDING
RESIDUE ON THE SOIL SURFACE UNTIL TILLAGE OPERATIONS FOR THE
NEXT CROP BEGINS. AFTER THIS NO RESIDUE IS REQUIRED IF THE
LAND IS PLANTED, PLOWED, OR LISTED AND IRRIGATED. WHEN
MANDATORY PLOWDOWN IS REQUIRED, LEAVE SOIL IN A RIDGED
CLODDY CONDITION AND IRRIGATED.

CORN/MILO - LEAVE THE MINIMUM SPECIFIED AMOUNTS OF STANDING
RESIDUE ON THE SOIL SURFACE UNTIL TILLAGE OPERATIONS FOR THE
NEXT CROP BEGINS. AFTER THIS NO RESIDUE IS REQUIRED IF THE
LAND IS PLANTED, PLOWED, OR LISTED AND IRRIGATED.

FALLOW - MANAGE SO THAT IDLE LAND IN THE ROTATION IS PRECEDED BY A HIGH RESIDUE CROP, WHICH HAS ADEQUATE RESIDUES FOR EROSION PROTECTION. WHEN PRECEDED BY SMALL GRAINS, LEAVE A MINIMUM OF 550 POUNDS OF RESIDUE PLUS THE VOLUNTEER ANNUALS DURING THE BLOW SEASON. WHEN CORN OR MILO PRECEDE THE IDLE PERIOD, LEAVE A MINIMUM OF 1000 POUNDS OF RESIDUE PLUS THE VOLUNTEER ANNUALS DURING THE BLOW SEASON. WHEN CHILE OR COTTON PRECEED THE IDLE PERIOD, LEAVE A MINIMUM OF 2000 POUNDS OF RESIDUE PLUS THE VOLUNTEER ANNUALS.

TILLED AND BARE LAND - DURING THE BLOW SEASON WIND EROSION WILL BE PREVENTED BY MAINTAINING ADEQUATE MOISTURE THAT WILL PRODUCE STABLE CLOUDS. LISTING IS A ADEQUATE TEMPORARY ALTERNATIVE, BUT SHOULD NOT EXCEED ONE YEAR IN THE ROTATION. AVOID LEAVING LAND IN A SMOOTH, DRY PULVERIZED CONTITION DURING THE CRITICAL WIND EROSION SEASON.

THE BASIC CONSERVATION SYSTEM MEETS THE EROSION PROTECTION REQUIREMENTS OF THE FOOD SECURITY ACT OF 1985 AND IS ATTAINABLE AND FEASIBLE WITHIN THE ARTESIA FIELD OFFICE.

CENTRAL VALLEY SWCD *Jerry Bush* DATE 5/3/88

PENASCO SWCD *Stevan Barley* DATE 5/3/88

DISTRICT CONSERVATIONIST *Donald S. Celem* DATE 5/3/88

AREA CONSERVATIONIST *Richard W. Smith* DATE 6/21/88

STATE CONSERVATIONIST *Ray V. Marapp* DATE 7/7/88