TG SECTION III - A-2
CONSERVATION RESOURCE MGMT. SYSTEMS-PART 2

ARTESIA FIELD OFFICE
IRRIGATED CROPLAND GUIDE SHEET
RESOURCE DATA

MLRA - 42
SOILS - ALL IN WEG 3 or lower

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 (FEB. - MAY).

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 1 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

An, BA*, BD*, Gs, HU*, Kf, PE*

* CHAVES COUNTY MAPPING UNITS

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 2 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Ao, ATA*, At, ATB*, Bh*, BP(PECOS)*, Ha, Hk, KL Kr, Kv, PfA*, PGB*, PN*, Pv, RA, Rd, RE (REAGAN), RG (REEVES), RL, RM, Rn, Rr, Rt, RS, Rv, So*

* CHAVES COUNTY MAPPING UNITS

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

ALTERNATIVE 3 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Aa, Ah, BGA*, BGB*, DP (PIMA)*, BP (BIGETTY)*, GD*, GE*
GF, Ku, Pe, Rc, ReA*, ReB*

* CHAVES COUNTY MAPPING UNITS

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 4 DOES NOT MEET CROPPING SEQUENCE SPECS.

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 5 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Aa, Ah, BGA*, BGB*, DP (PIMA)*, BP (BIGETTY)*, GD*, GE*
GF, Ku, Pe, Rc, ReA*, ReB*

* CHAVES COUNTY MAPPING UNITS

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 6 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Ao, ATA*, At, ATB*, Bh*, BP(PECOS)*, Ha, Hk, KL Kr, Kv, PfA*, PGB*, PN*, Pv, RA, Rd, RE (REAGAN), RG (REEVES), RL, RM, Rn, Rr, Rt, RS, Rv, So*

* CHAVES COUNTY MAPPING UNITS

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 7 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Ao, ATA*, At, ATB*, Bh*, BP(PECOS)*, Ha, Hk, KL Kr, Kv, PfA*, PGB*, PN*, Pv, RA, Rd, RE (REAGAN), RG (REEVES), RL, RM, Rn, Rr, Rt, RS, Rv, So*

* CHAVES COUNTY MAPPING UNITS

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 9 WILL MEET CROPPING SEQUENCE SPECS. FOR THE FOLLOWING MAPPING UNITS:

Ao, ATA*, At, ATB*, Bh*, BP(PECOS)*, Ha, Hk, KL Kr, Kv, PfA*, PGB*, PN*, Pv, RA, Rd, RE (REAGAN), RG (REEVES), RL, RM, Rn, Rr, Rt, RS, Rv, So*

* CHAVES COUNTY MAPPING UNITS

ALTERNATIVE 10: ALFALFA/PASTURELAND 7 YEARS, CORN (GRAIN)/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.

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

*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 PRECEDE 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 CLODS. LISTING IS A ADEQUATE TEMPORARY ALTERNATIVE, BUT SHOULD NOT EXCEED ONE YEAR IN THE ROTATION. AVOID LEAVING LAND IN A SMOOTH, DRY PULVERIZED CONDITION DURING THE CRITICAL WIND EROSION SEASON.

Approved by:

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AREA CONSERVATIONIST Richard J. Smith DATE 6/7/88

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