

T.G. Section III-A-2 Basic Conservation System Part 2
Socorro Field Office
Irrigated Cropland Guide Sheet
Resource Data

MLRA 42

Soils: All irrigated soils in WEG 3 thru 7.

WEQ values: C-120 or less, I-86 or less, and L-1000 or less

If WEQ values listed above are exceeded, erosion losses for each rotation will be computed individually to ensure that total average wind erosion loss is within acceptable levels.

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 to provide wind erosion protection during February to May, which is the critical blow season.

MANAGEMENT REQUIREMENTS

The Crop Rotation Needed for erosion control may include any combination of crops grown in any sequence.

The existing Irrigation System will be maintained as irrigation is essential for controlling wind erosion. Land will be considered irrigated if the irrigated crop produces adequate residues for erosion protection.

Crop Residue Management for erosion protection requires leaving the residues from the previous crop on the surface until tillage operations for the next crop begins. After this, no residue is required if the land is planted, plowed or listed when irrigated. Avoid leaving the land in a smooth, dry, pulverized condition during the critical blow period. Maintain a 2 inch stubble on growing crops as alfalfa and small grain which may be flat planted.

If land is left fallow or idle manage the rotation where the idle land is preceded by a high residue crop, which has adequate residue for erosion protection. These residues will be maintained on the soil surface to leave the following "Small Grain Equivalent", (SGe) for the following soil types and Wind Erodibility Groups, (WEG). Sandy loams, clays and highly calcareous loams in WEG-3, 4 and 4L, 2250# SGe/ac.; and loams in WEG-5, 6, and 7, 1750# SGe/ac.

The following crops normally produce the following SGe under normal management if left standing. Alfalfa, small grain, corn, milo, sudan and chile produce over 3000# SGe/ac. If flat or shredded, chile produces less than 1750# SGe/ac.

If inadequate residue is present and where adequate moisture is present on soils that will produce stable clods; plowing or listing is an adequate temporary alternative but should not exceed one year in the rotation.

If land is to be left idle for extended periods, irrigation may be needed to re-establish the minimum residue, or the land may be planted to a perennial cover.

The Basic Conservation System meets the erosion protection requirements of the Food Security Act of 1985 and is attainable and feasible within the Socorro Field Office.

Socorro SWCD E. B. Lemijo Date _____

District Conservationist Darrell M. Brown Date _____

Area Conservationist Stan Bulstebauer, Acting Date 5/24/88

State Office Lay Margosh Date 7/7/88