SITE SPECIFIC PRACTICE EFFECTS WORKSHEET FOR IRRIGATED CROPLAND, NUMBER 5A:

TECHNICAL GUIDE - SECTION III
FIELD OFFICE _____
DATE _____

RESOURCE SETTING: MLRA 32, Sprinkler irrigated cropland, sandy soils, windy springs, severe thunderstorms prevalent, private ownership.

PROBLEM IDENTIFICATION: Excessive soil erosion from wind, weed and insect pests, poor wildlife habitat, irrigation erosion, poor air quality and soil tilth when stubble is burned.

RESOURCE PROBLEMS/ASPECTS

		SOIL EROSION	SOIL EROSION	SOIL EROSION	SOIL CONDIT.	SOIL Condit.	WATER QUALITY	WATER QUALITY	WATER QUALITY	AIR QUALITY	AIR QUALITY	PLANTS SUIT.	PLANTS CONDIT.	PLANTS CONDIT.	PLANTS MGT.	ANIMAL HABITAT	ANIMAL HABITAT	ANIMAL HABITAT
(Code)	Practices	Sheet & Rill	Wind	Irrigation induced	Tilth	Excess Fert-ilizer	(Ground) Pesticides Nutrients	(Surface) Pesticides Nutrients	(Surface) Sediment	Safety - Sediment and/or Smoke On-site	Off-site	Suit. for Intended Use	Prod. - Kind, Amt. Distrib.	Health & Vigor	Pests- Brush, Weeds	Food	Cover or Shelter	Quan./Qual. Drinking Water
(328)	Cons. Cropping Sequence	+3	+3	+2	+3	+2	+1	+1	+2	+3	+3	+3	+2	+2	+2	+2	+2	NA
(344)	Crop Residue Use	+2	+3	+2	+1	NG	+1	NG	NG	+3	+3	+1	+2	+1	+1	+3	+3	+1
(442)	Irr. System, Sprinkler	NG	+1	+3	+1	+1	+3	+3	+3	NG	NG	NA	+2	+2	NA	+1	-2	-3
(449)	Irr. Water Mgt.	NA	+2	+3	+3	+3	+3	+2	+3	NG	NG	+1	+1	+2	+1	+1	-2	+1
(590)	Nutrient Mgt.	NG	NG	NG	NG	+3	+3	+3	NG	NG	NG	+1	+3	+3	NA	+1	+1	+1
(595)	Pest Mgt.	+1	+1	NG	NG	NG	+3	+3	NG	+1	+1	NA	+2	+2	+3	-3	+1	+2
(609)	Surface Roughening	+1	+3	+1	NG	NG	NG	+1	+1	+3	+3	NA	+2	+2	NA	-2	-3	NA
(329)	Conservation Tillage	+3	+3	+2	+3	NG	NG	+2	+2	+3	+3	NA	+1	+1	+1	+3	+1	+2
(340)	Cover Crop	+2	+3	+1	+2	+1	+1	+1	+2	+3	+2	+3	+2	+2	NG	+2	+2	+1

+ = positive effect, - = negative effect; 1 = slight effect, 2 = moderate effect, 3 = significant effect; NG = Negligible; NA = Not Applicable.

RESOURCE MANAGEMENT SYSTEM (RMS) GUIDE SHEET FOR CROPLAND, NUMBER 5A:

TECHNICAL GUIDE - SECTION III
FIELD OFFICE _____
DATE _____

RESOURCE SETTING: MLRA 32, Sprinkler irrigated cropland, sandy soils, windy springs, severe thunderstorms prevalent, private ownership.

CURRENT SITUATION: Primary crops and yields are barley (90 bu.), beets (22 tons) and alfalfa (5 ton.). Conventional plow, pack and plant tillage along with burning of small grain stubble, prevalent. Pesticides and nutrients routinely used. Irrigation efficiency is about 70%. Fields are generally 130 acre circles. Wildlife habitat <.4, No known unique local cultural values; Operator goals include - sustained crop production with reasonable economic returns and sustained resoures for continued family lifestyle.

PROBLEM IDENTIFICATION: Excessive soil erosion from wind, weed and insect pests, poor wildlife habitat, irrigation erosion, poor air quality and soil tilth when stubble is burned.

RESOURCE PROBLEMS/ASPECTS

RESOURCE MANAGEMENT SYSTEMS OPTIONS		SOIL EROSION	SOIL EROSION	SOIL EROSION	SOIL CONDIT.	SOIL Condit.	WATER QUALITY	WATER QUALITY	WATER QUALITY	AIR QUALITY	AIR QUALITY	PLANTS SUIT.	PLANTS CONDIT.	PLANTS CONDIT.	PLANTS MGT.	ANIMAL HABITAT	ANIMAL HABITAT	ANIMAL HABITAT
(Code)	Practices	Sheet & Rill	Wind	Irrigation induced	Tilth	Excess Fert-ilizer	(Ground) Pesticides Nutrients	(Surface) Pesticides Nutrients	(Surface) Sediment	Safety - Sediment and/or Smoke On-site	Off-site	Suit. for Intended Use	Prod. - Kind,Amt. Distrib.	Health & Vigor	Pests- Brush, Weeds	Food	Cover or Shelter	Quan./Qual. Drinking Water
	RMS No. 1																	
(328)	Cons. Cropping Sequence	+3	+3	+2	+3	+2	+1	+1	+2	+3	+3	+3	+2	+2	+2	+2	+2	NA
(344)	Crop Residue Use	+2	+3	+2	+1	NG	+1	NG	NG	+3	+3	+1	+2	+1	+1	+3	+3	+1
(442)	Irr. System, Sprinkler	NG	+1	+3	+1	+1	+3	+3	+3	NG	NG	NA	+2	+2	NA	+1	-2	-3
(449)	Irr. Water Mgt.	NA	+2	+3	+3	+3	+3	+2	+3	NG	NG	+1	+1	+2	+1	+1	-2	+1
(590)	Nutrient Mgt.	NG	NG	NG	NG	+3	+3	+3	NG	NG	NG	+1	+3	+3	NA	+1	+1	+1
(595)	Pest Mgt.	+1	+1	NG	NG	NG	+3	+3	NG	+1	+1	NA	+2	+2	+3	-3	+1	+2
(609)	Surface Roughening*	+1	+3	+1	NG	NG	NG	+1	+1	+3	+3	NA	+2	+2	NA	-2	-3	NA
	RMS No. 2																	
(328)	Cons. Cropping Sequence	+3	+3	+2	+3	+2	+1	+1	+2	+3	+3	+3	+2	+2	+2	+2	+2	NA
(329)	Conservation Tillage	+3	+3	+2	+3	NG	NG	+2	+2	+3	+3	NA	+1	+1	+1	+3	+1	+2
(442)	Irr. System, Sprinkler	NG	+1	+3	+1	+1	+3	+3	+3	NG	NG	NA	+2	+2	NA	+1	-2	-3
(449)	Irr. Water Mgt.	NA	+2	+3	+3	+3	+3	+2	+3	NG	NG	+1	+1	+2	+1	+1	-2	+1
(590)	Nutrient Mgt.	NG	NG	NG	NG	+3	+3	+3	NG	NG	NG	+1	+3	+3	NA	+1	+1	+1
(595)	Pest Mgt.	+1	+1	NG	NG	NG	+3	+3	NG	+1	+1	NA	+2	+2	+3	-3	+1	+2
	RMS No. 3																	
(328)	Cons. Cropping Sequence	+3	+3	+2	+3	+2	+1	+1	+2	+3	+3	+3	+2	+2	+2	+2	+2	NA
(340)	Cover Crop	+2	+3	+1	+2	+1	+1	+1	+2	+3	+2	+3	+2	+2	NG	+2	+2	+1
(344)	Crop Residue Use	+2	+3	+2	+1	NG	+1	NG	NG	+3	+3	+1	+2	+1	+1	+3	+3	+1
(442)	Irr. System, Sprinkler	NG	+1	+3	+1	+1	+3	+3	+3	NG	NG	NA	+2	+2	NA	+1	-2	-3
(449)	Irr. Water Mgt.	NA	+2	+3	+3	+3	+3	+2	+3	NG	NG	+1	+1	+2	+1	+1	-2	+1
(590)	Nutrient Mgt.	NG	NG	NG	NG	+3	+3	+3	NG	NG	NG	+1	+3	+3	NA	+1	+1	+1
(595)	Pest Mgt.	+1	+1	NG	NG	NG	+3	+3	NG	+1	+1	NA	+2	+2	+3	-3	+1	+2

+ = positive effect, - = negative effect; 1 = slight effect, 2 = moderate effect, 3 = significant effect; NG = Negligible; NA = Not Applicable. * Use for emergency tillage if necessary.