

Appendix VI. B1.

ARLINGTON RESEARCH STATION WICST - INPUT/OUTPUT DATA - Cash Grain Rotations - 1991

Crop	Continuous Corn	Narrow Row Beans	Corn	Filler Corn	Wheat/Red Clover	Wide Row Beans
Rotation	R1	R2	R2	R3	R3	R3
Treatment	1	2	3	4	5	6
Plot #'s	109,204,306,412	108,206,310,408	101,214,303,401	104,201,301,402	106,202,307,411	102,212,313,407
Primary Tillage	Chisel Plow 11/8/90	Chisel Plow 11/8/90	No-Till	Chisel Plow 11/8/90	None	Chisel Plow 11/8/90
Secondary Tillage	Disk Soil Finisher	Soil Finisher Soil Finisher	None	Disk Soil Finisher	None	Soil Finisher
Planting Date	4/27/91	5/15/91	4/27/91	4/27/91	9/12/90 wheat 3/26/91 clover	5/15/91 soybean 9/4/91 wheat
Variety	DeKalb 547	Pioneer 9272	DeKalb 547	DeKalb 547	Caldwell - wheat Arling. - rd clov.	Pioneer 9272 Caldwell - wheat
Population	32,100	234,000	32,100	32,100	120 lb/A wheat 12 lb/A clover	156,000 soybean 180 lb/A wheat
Fertilizer	100 lb/A 6-24-24 146 lb/A 82-0-0	None	100 lb/A 6-24-24 110 lb/A 82-0-0	128 lb 82-0-0	None	None
Pesticides	Lasso 2 qt/A Atrazine 1.5 qt/A premerge Counter 15G 9 lb/A planter applied	Treflan 1.5 pt/A Lexone DF .5 lb/A ppi	Lasso 2 qt/A Bladex 2.5 qt/A premerge Accent .67 oz/A post	Counter 15G 9 lb/A planter applied	None	None
Mechanical Weeding	No-till cult. 6/6/91	None	No-till cult. 6/6/91	Rotary hoe 5/9, 5/13/91 No-till cult. 5/30, 6/6/91	None	Rotary hoe 5/29/91 No-till cult. 6/6/91
Yield	160 bu/A	60 bu/A	185 bu/A	124 bu/A	64 bu/A	51 bu/A
1992 Crops	Corn	Corn	Narrow Row Beans	Wide Row Beans	Corn	Wheat/ Red Clover

Appendix VI. B2.

ARLINGTON RESEARCH STATION WICST - INPUT/OUTPUT DATA - Forage Rotations - 1991

Crop Rotation Treatment Plot #'s	Est. Alfalfa R4 7 111,209,305,409	D. S. Alfalfa R4 8 113,210,311,414	Filler Corn R4 9 105,203,308,406	Filler Corn R4 10 107,205,309,404	Est. Alfalfa R5 11 110,208,304,413	Oats/Alfalfa R5 12 103,213,314,410	Filler Corn R5 13 114,211,312,403	Pasture R6 14 112,207,302,405
Primary Tillage		Chisel Plow 11/8/90	Chisel Plow 11/8/90	Chisel Plow 11/8/90		Chisel Plow 11/8/90	Chisel Plow 11/8/90	
Secondary Tillage		Disk Soil Finisher	Disk Soil Finisher	Disk Soil Finisher		Disk Soil Finisher	Disk Soil Finisher	
Planting Date	4/23/90	4/8/91	4/27/91	4/27/91	4/23/90	4/8/91	4/27/91	4/23/90
Variety	Magnum III	Magnum III	DeKalb 547	DeKalb 547	Magnum III	Horicon-oats Magnum III-alf.	DeKalb 547	Marathon-rd clov. Toro-timothy Badger-brome
Population		15 lb/A	32,100	32,100		15 lb/A alfalfa 64 lb/A oats	32,100	7 lb/A rd clov. 4 lb/A timothy 8 lb/A brome
Fertilizer		20 T/A manure 10/29/90	128 lb 82-0-0 20 T/A manure 10/30/91	128 lb 82-0-0	15 T/A manure 10/31/91	15 T/A manure 10/23/90	128 lb 82-0-0 15 T/A manure 10/31/91	10 T/A manure 10/29/90 11/4/91
Pesticides	Malathion 1 qt/A 7/18/91	Eptam 2 qt/A ppi Malathion 1 qt/A 7/18/91	Lasso 2 qt/A Bladex 2.5 qt/A premerge Counter 15G 9 lb/A planter applied	Lasso 2 qt/A Bladex 2.5 qt/A premerge Counter 15G 9 lb/A planter applied			Counter 15G 9 lb/A planter applied	
Mechanical Weeding			No-till cult. 6/6/91	No-till cult. 6/6/91			Rotary hoe 5/9,13,21/91 No-till cult. 5/30, 6/6/91	
Harvest	6/4/91 7/10/91 8/15/91 10/23/91	6/19/91 7/29/91 8/28/91 10/23/91	10/3/91	10/3/91	6/4/91 7/10/91 8/15/91 10/23/91	Oats 7/16/91 Straw 7/19/91 Alfalfa 8/29/91	10/3/91	6/4/91 7/10/91 8/15/91
Yield	5.8 T DM/A	5.1 T DM/A	156 bu/A	160 bu/A	5.8 T DM/A	55 bu/A oats 1.0 T/A straw 1.4 T DM/A alf	124 bu/A	4.7 T DM/A
1992 Crops	Alfalfa Hay	Alfalfa Hay	D.S. Alfalfa	Filler Corn	Corn	Alfalfa Hay	Oats/Alfalfa	Pasture