

Appendix I-B. 2002 WICST INPUT/OUTPUT DATA - ARLINGTON RESEARCH STATION

Corn rotations					
CROP-02	CORN	CORN	CORN	CORN	CORN
Rotation	CS1	CS2	CS3	CS4	CS5
Treatment #	1	2	6	8	12
Plot #'s	109, 204, 306, 412	108, 206, 310, 408	102, 212, 313, 407	113, 210, 311, 414	103, 213, 314, 410
Primary Tillage	Chisel plow 11/13/01	No-till	Chisel plow w/sweeps 11/15/01	Chisel plow w/sweeps 11/13/01	Chisel plow w/sweeps 11/15/01
Secondary Tillage	Field Digger 4/30/02	None	Field Digger 4/30, 5/7, 5/14	Field Digger 4/30/02	Field Digger 4/30, 5/7, 5/14
Planting Date	4/30/02	4/30/02	5/14/02	4/30/02	5/14/02
Variety	Agrigold A6382	Agrigold A6382	FS 3969	Agrigold A6382	FS 3969
Rate	32,000 seeds/a	32,000 seeds/a	34,500 seeds/a	32,000 seeds/a	34,500 seeds/a
Starter Fertilizer	100 lb product 5-14-42	100 lb product 5-14-42	None	100 lb product 5-14-42	None
Nitrogen Fertilizer	130 lb N/a 82-0-0 preplant	80 lb N/a 46-0-0 preplant	None	None	None
Manure	None	None	None	20 ton/a 11/12/01	15 ton/a 11/12/01
Pesticides	<u>Pre-emrg 5/3/02:</u> Counter (5 lb/a) Dual II Magnum (1.5 pt/a) <u>Post-emrg 6/14/02</u> Callisto 3 oz/a w/2.5 lb/a AMS, crop oil	<u>Pre-emrg 5/3/02:</u> Dual II (1.5 pt/a) Roundup Ultra (12 oz/a) w/AMS 2.5 lb/a <u>Post-emrg 6/14/02</u> Callisto 3 oz/a w/2.5 lb/a AMS, cron oil	None	<u>Pre-emrg 5/3/02:</u> Dual II Magnum (1.5 pt/a) <u>Post-emrg 6/17/02:</u> Northstar (5 oz/a)	None
Rotary Hoe	5/22/02	None	5/22, 5/28, 6/7	5/22/02	5/22, 5/28, 6/7
Cultivation	6/25/02	None	6/14, 6/25	6/25/02	6/14, 6/25
Harvest	10/21/02	10/21/02	10/21/02	10/21/02	10/21/02
Yield	192.2 bu/a	159.0 bu/a	157.8 bu/a	186.6 bu/a	174.1 bu/a
Fall Practices	Chop stalks 11/7/02 Chisel plow 11/20/02	None	Chop stalks 11/7/02 Chisel plow 11/20/02	Chop stalks 11/7/02 Manure 20 t/a 11/13/02 Chisel plow 11/20/02	Chop stalks 11/7/02 Manure 15 t/a 11/13/02 Chisel plow 11/21/02
Crop 2003	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

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Soybean and Wheat Rotations			
CROP-02	NR Soybean	WR Soybean/Wheat	Wheat/Red Clover
Rotation	CS2	CS3	CS3
Treatment #	3	5	4
Plot #'s	101,214,303,401	106,202,307,411	104,201,301,402
Primary Tillage	No-till	Chisel plow 10/13/01	None
Secondary Tillage	None	Field digger 4/30, 5/7, 5/14	None
Planting Date	5/15/02	SB: 5/14/02 WW: 10/10/02	Red clover: 4/1/02 WW: 10/3/01
Variety	Asgrow 2001	NK 19-T9 190,000 sd/a	Arlington red clover: 15 lb/a
Rate	250,000 seeds/a	Kaskaskia 3 bu/a (180 lb/a)	Kaskaskia wheat: 180 lb/a
Fertilizer	None	None	None
Pesticides	<u>Pre-plant 5/3/02</u> Roundup-Ultra (0.5 pt/a) <u>Post-emerg. 6/28/02</u> Roundup-Ultra (0.5 pt/a) (Both w/2 lb/a AMS)	None	None
Rotary Hoe	None	5/22/02, 5/28/02, 6/7/02	None
Cultivation	None	6/14/02, 6/18/02, 6/25/02	None
Harvest	10/11/02	10/11/02	Grain: 7/15/02 Straw: 7/16/02
Yield	54.5 bu/a	51.0 bu/a	Grain: 70.5 bu/a Straw: 1.43 ton/a
Fall Practices	None	Field digger 1x 10/11/02 Plant wheat 10/11/02	Stalk chopper for rc biomass Chisel plow w/sweeps 11/21/02
Crop 2003	Corn	Wheat / Red Clover	Corn

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Forage rotations						
CROP-02 Rotation Treatment #	D.S. Alfalfa CS4 7	Estab. Alfalfa I CS4 10	Estab. Alfalfa II CS4 9	Oats/Alfalfa CS5 11	Estab. Alfalfa I CS5 13	Pasture CS6 14
Plot #'s	111,209, 305,409	107,205, 309,404	105,203, 308,406	110,208, 304,413	114,211, 312,403	112, 207, 302, 405
Primary Tillage	Chisel plow 11/13/01	None	None	Chisel plow 11/11/01	None	None
Secondary Tillage	Field digger 4/08/02	None	None	Field digger 2x, 4/09/02	None	None
Planting Date Variety	4/09/02 Magnum V	4/17/01 Magnum V	3/30/00 Dekalb 124	4/09/02 Bay Oats Trapper peas Magnum V	4/17/01 Magnum V, oats, trapper peas	None
Rate	12 lb/a	12 lb/a	12 lb/a	50 lb/a, 50 lb/a 12 lb/a	Alf -12 lb/a Oats – 50 lb/a Peas – 50 lb/a	
Fertilizer	None	None	None	None	None	None
Manure	20 ton/a 11/12/01	None	None	15 ton/a 11/10/00	None	~ 5 ton/a from 4-515 lb heifers
Pesticides	<u>6/12/02</u> Pursuit DG 1.08 oz/a <u>7/8/02</u> Pounce 3.2ec 6 oz/a <u>7/18/02</u> Warrior 2 oz/a	<u>7/18/02</u> Warrior 2 oz/a	<u>7/18/02</u> Warrior 2 oz/a <u>10/8/02</u> 2,4-D ester 2 oz/a <u>11/1/02</u> RoundupUlt 1 pt/a w/AMS 2 lb/a	None	None	Stinger ~ 1 gal spot sprayed
Harvest	7/01/02, 8/14/02	5/31/02, 7/01/02, 8/05/02, 9/09/02	5/31/02, 7/01/02, 8/05/02, 9/09/02	<u>Oatlage:</u> 6/30/02 <u>Haylage:</u> 8/14/02	6/08/02, 7/09/02, 8/14/02, 10/16/02	Rotational Grazing/ clipping, 163d of grazing
Yield	2.96 t DM/a	5.18 t DM/a	4.50 t DM/a	Oatlage: 2.42 Haylage: 1.09 t DM/a	5.10 tDM/a	1.82 lb/hd/dy 1.20 t DM/a ¹
Fall Practices	None	None	Manure 20 t/a 11/13/02 Chisel plow w/sweeps 11/21/02	None	Manure 15 t/a 11/13/02 Chisel plow w/sweeps 11/21/02	None
Crop 2003	Alf I	Alf II	Corn	Alf I	Corn	Pasture

¹ Hay harvested in May from plot 207 = 1.20 ton DM/a and hay harvested in May and June from plot 405 = 1.17 ton DM/a

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Satellite plots – Chemlite of Cropping System 3

CROP-02	Corn	WR Soybean/Wheat	Wheat/Red Clover
Rotation	CS3	CS3	CS3
Treatment #	Sat B,F	Sat A,E	Sat C,D
Primary Tillage	Chisel plow w/sweeps 11/15/01	Chisel plow 10/13/01	None
Secondary Tillage	Field digger 4/30, 5/7, 5/14	Field digger 4/30, 5/7, 5/14	None
Planting Date	5/14/02	SB: 5/14/02 WW: 10/11/02	Red clover: 4/1/02 WW: 10/3/01
Variety	FS 3969	NK 19-T9 190,000 sd/a	Arlington red clover: 15 lb/a
Rate	34,500 seeds/a	Kaskaskia 3 bu/a (180 lb/a)	Kaskaskia wheat: 180 lb/a
Fertilizer	80 lb N/a 46-0-0 preplant	None	4/23/02 50 lb N/a 46-0-0
Pesticides	6/15 Buctril 0.5 pt/a 6/15 Accent 0.33 oz/a	6/21 Raptor 2 oz/a 6/21 Poast Plus 0.75 pt/a	None
Rotary Hoe	5/28, 6/7	5/28, 6/7	None
Cultivation	6/25/02	6/25/02	None
Harvest	10/21/02	10/11/02	Grain: 7/15/02 Straw: 7/16/02
Yield	173.1 bu/a	60.8 bu/a	Grain: 78.3 bu/a Straw: 1.79 t DM/a
Fall Practices	Chisel plow 11/20/02	Field digger 10/11/02 Plant wheat 10/11/02	Stalk chopper for rc biomass Chisel plow w/sweeps 11/21/02
Crop 2003	Soybean	Wheat / Red Clover	Corn