

APPENDIX A

Miscellaneous Agronomic Data Tables

Table A1. Wilke farm crops, varieties, and yields for 3- and 4-year crop rotations, 1998 to 2001.

Rotation	Crop Type	1998		1999		2000		2001		Average yield
		Crop (variety)	Yield (bu/a)	Crop (variety)	Yield (bu/a)	Crop (variety)	Yield (bu/a)	Crop (variety)	Yield (bu/a)	
3-year	Sm. grain	S. wheat (Alpowa)	1881 (32)	S. wheat (Calorwa)	2072 (35)	W. wheat (Rely)	3204 (53)	W. wheat (Mad/Elt)	2788 (46)	2377
	Sm. grain	Barley (Meltan)	2770	Barley (Meltan)	2440	Barley (Meltan)	2800 (47)	Barley (Baronesse)	2040 (34)	2309
	Broadleaf	Yellow Mustard	513	Yellow Mustard	757	Peas (Toledo)	792	Peas (Eiffel)	541	609
Total lb/a			5164		5269		6796		5369	
4-year	Sm. grain	S. wheat (Alpowa)	1866 (31)	S. wheat (Wawawa i)	1784 (30)	S. wheat (Alpowa)	3080 (52)	S. wheat (Alpowa)	1856 (31)	2128
	Sm. grain	Barley (Meltan)	2940	Barley (Baronesse)	2433	W. wheat (Madson)	3250 (54)	W. wheat (Mad/Elt)	1966 (33)	2493
	Warm season grass	Proso Millet CO. Red	596	Proso Millet Early Bird	486	Proso Millet (Dawn)	174	Proso Millet (WSU-CH3)	357	741
	Broadleaf	Safflower	593	Canola (Hyola 308)	1011	Sunflower (Big Foot)	1151	Peas (Eiffel)	542	739
Total lb/a			5995		5714		7655		4721	

Table A2. Wilke farm residue production for 3- and 4-year crop rotations, 1998-2001.

Rotation	Crop Type	1998		1999		2000		2001		Average residue
		Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	
3-year	Sm. grain	S. wheat (Alpowa)	4581	S. wheat (Calorwa)	4118	W. wheat (Rely)	4767	W. wheat (Mad/Elt)	10984	6397
	Sm. grain	Barley (Meltan)	5040	Barley (Meltan)	4710	Barley (Meltan)	4013	Barley (Barronesse)	10468	6150
	Broadleaf	Yellow Mustard	3063	Yellow Mustard	4897	Peas (Toledo)	4607	Peas (Eiffel)	5907	4760
4-year	Sm. grain	S. wheat (Alpowa)	5612	S. wheat (Wawawai)	6086	S. wheat (Alpowa)	7642	S. wheat (Alpowa)	4428	7706
	Sm. grain	Barley (Meltan)	4835	Barley (Barronesse)	5435	W. wheat (Madson)	5865	W. wheat (Mad/Elt)	10242	10355
	Warm season grass	P. Millet	6466	P. Millet	5771	P. Millet (Dawn)	5131	P. Millet (WSU-CH3)	--	
	Broadleaf	CO. Red Safflower	6181	Early Bird Canola (Hyola 308)	7809	Sunflower (Big Foot)	4467	Peas (Eiffel)	3778	4843

Table A3. Cooperator crops, variety, and yield for 3- and 4-year rotations.

Cooperator	Crop Type	1998		1999		2000		2001		Average Yield
		Crop (variety)	Yield	Crop (variety)	Yield	Crop (variety)	Yield	Crop (variety)	Yield	
			lb/a (bu/a)		lb/a (bu/a)		lb/a (bu/a)		lb/a (bu/a)	
3-1	Sm. grain	S. wheat (Edwall)	2040 (34)	S. wheat (Alpowa)	1800 (30)	S. wheat (Alpowa)	2568 (43)	W. wheat (Rely)	1800 (30)	2977
	Sm. grain	Barley (Camelot)	2760	Barley (Baronesse)	2400	Barley (Baronesse)	2520	Barley (Camelot)	1500	2812
	Broadleaf	Canola	1001	Canola (Reward)	517	Buckwheat [†]	--	Summer Fallow	--	455
3-2	Sm. grain	W. wheat (Madson)	3650	W. wheat (Eltan)	3240 (54)	W. wheat (Eltan)	2760 (46)	W. wheat (Coda)	2520 (42)	1977
	Broadleaf	Safflower	100	Canola (Hyola 308)	1078	Flax (McDuff)	960	Canola (IMC 015)	755	759
	Sm. grain	Barley (Harrington)	3000	S. wheat (Wawawai)	2580 (43)	Barley (Harrington)	2900	S. wheat (Winsom)	2340 (39)	2370
4-1	Sm. grain	S. wheat (Penawawa)	2983 (50)	S. wheat (Wawawai)	2910 (49)	S. wheat (Penewawa)	2940 (49)	W. wheat (Coda)	2100 (35)	3048
	Sm. grain	Barley (Baronesse)	3880	Barley (Baronesse)	3440	Barley (Baronesse)	4720	S. wheat (Penewawa)	3360 (56)	3535
	Warm season grass	Millet (CO. Red)	800	Millet (Dawn)	1050	Millet (Dawn)	850	Millet (WSU-CH3)	800	875
	Broadleaf	Canola (Hyola 308)	1570	Canola (Hyola 308)	1000	Canola (IMC 105)	1529	Canola (IMC 105)	925	906
4-2	Sm. grain	S. Wheat (Alpowa)	1860 (31)	S. wheat (Wawawai)	1980 (33)	S. wheat (Alpowa)	3180 (63)	S. wheat (Winsome)	1920 (32)	2183
	Sm. grain	Oats (Celsia)	1650	S. wheat (Wawawai)	1650 (28)	S. wheat (Alpowa)	2700 (45)	S. wheat (926 R)	1860 (31)	2018
	Warm season grass	Millet (CO. Red)	400	Millet (Dawn)	1080	Millet (Dawn)	500	Corn Canamaize	500	680
	Broadleaf	Mustard (Yellow)	550	Buckwheat	1051	Sunflower (Integra 626)	1000	Sunflower (Integra 626)	860	865

[†]Buckwheat froze on Sept. 10, 2000, field not harvested.

Table A3. Cooperator crop residue for 3- and 4-year rotations.

Cooperator	Crop Type	1998		1999		2000		2001		Average Residue lb/a
		Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	Crop (variety)	Residue lb/a	
3-1	Sm. grain	S. wheat (Edwall)	4243	S. wheat (Alpowa)	3896	S. wheat (Alpowa)	2642	W. wheat (Rely)	5593	4094
	Sm. grain	Barley (Camelot)	8020	Barley (Baronesse)	5941	Barley (Baronesse)	2402	Barley (Camelot)	6441	5701
	Broadleaf	Canola	4511	Canola (Reward)	4520	Buckwheat [†]	--	Summer Fallow	--	4516
3-2	Sm. grain	W. wheat (Madson)	8216	W. wheat (Eltan)	6971	W. Wheat (Eltan)	10270	W. wheat (Coda)	7545	8677
	Broadleaf	Safflower	4050	Canola (Hyola 308)	4744	Flax (McDuff)	7503	Canola (IMC 015)	8269	5225
	Sm. grain	Barley (Harrington)	5724	S. wheat (Wawawai)	4732	Barley (Harrington)	5845	S. wheat (Winsom)	6019	5858
	Broadleaf	Safflower	4050	Canola (Hyola 308)	4744	Flax (McDuff)	7503	Canola (IMC 015)	8269	5225
4-1	Sm. grain	S. wheat (Penawawa)	5975	S. wheat (Wawawai)	7488	S. wheat (Penewawa)	2852	W. Wheat (Coda)	7413	7413
	Sm. grain	Barley (Baronesse)	4382	Barley (Baronesse)	6142	Barley (Baronesse)	4740	S. wheat (Penewawa)	6037	5669
	Warm season grass	Millet (CO. Red)	4963	Millet (Dawn)	5632	Millet (Dawn)	4136	Millet (WSU-CH3)	8853	4910
	Broadleaf	Canola (Hyola 308)	9948	Canola (Hyola 308)	5720	Canola (IMC 105)	5547	Canola (IMC 105)	8437	7413
4-2	Sm. grain	S. wheat (Alpowa)	8430	S. wheat (Wawawai)	6565	S. wheat (Alpowa)	6695	S. wheat (Winsome)	10570	7244
	Sm. grain	Oats (Celsia)	8539	S. wheat (Wawawai)	5554	S. wheat (Alpowa)	5371	S. wheat (926 R)	7176	7481
	Warm season grass	Millet (CO. Red)	6484	Millet (Dawn)	7368	Millet (Dawn)	6119	Corn	6347	6580
	Broadleaf	Mustard (Yellow)	6671	Buckwheat	7246	Sunflower (Integra 626)	5320	Canamaize Sunflower (Integra 626)	NC	6412

[†]Buckwheat froze on Sept. 10, 2000, field not harvested or residue collected, Cooperator 4-2, 2001 sunflower residue not collected.