

Deep Soil Sampling - Fall 2015

ID	Acres		Soil Testing?	Test Frequency	Current Irrigation System Type	Schedule	Hour Sets	Current Years	Previous Irrigation System Type	Previous Years	NO3 (#N/ACRE) 10/13/2015	Fertilizer Applications (#N/Acre)								Cropping History						Soil								
	8		YES	Once per Year	Sprinklers	Shovel Method		20	Sprinklers - Hand Lines			Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal				
												2016	0	0	0	0	0	0	0	0	Triticale	10 Tons			Crop Condition	A	S, SH	M, M	1.2					
3083	55		NO	Not in last two years	Sprinklers	Soil Moisture Sensors	24	1	Rill Irrigation		10/13/2015	Fertilizer Applications (#N/Acre)								Cropping History						176 - Warden Silt Loam 0 to 2 percent slopes								
												Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal				
												2016	0	0	0	0	0	0	0							Crop Condition	A	S, S	M, Dp	3				
												2015	0	0	0	0	0	0	0	Pasture	2.5 Tons			Good	Actual	B	S, S, S	M, Dp, Dp	0.8					
												2014	0	0	200	0	0	0	200	Triticale	8 Tons	Corn Silage	27 Tons			C	S, S, S	M, Dp, Dp	0.6					
												2013	0	0	200	0	0	0	200	Triticale	8 Tons	Corn Silage	28 Tons			D	S, SH	M, Dp	0.6					
												2012	0	0	200	0	0	0	200							E								
												Comments											Nutrients applied in spring.						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented					
																							Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet											
	3085	20		YES	Twice per year	Solid Set Above Canopy	Soil Moisture Sensors	24	3	Rill Irrigation		10/14/2015	Fertilizer Applications (#N/Acre)								Cropping History						177 - Warden Silt Loam 2-5% Slopes							
											Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal					
											2016	0	0	0	0	0	0	0	Triticale	10 Tons			Good	Planned	A	S	M							
											2015	0	113	300	0	0	0	413	Corn	30 Tons					B	S	M	0.9						
											2014	0	0	100	0	0	0	100	Grapes	9 Tons					C	S	M	0.7						
											2013	0	0	100	0	0	0	100	Grapes	8 Tons					D	S	M							
											2012	0	0	0	0	0	0	0							E									
											Comments																	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented						
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet												

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ID	Acres	Soil Testing?	Test Frequency	Current Irrigation System Type	Schedule	Hour Sets	Current Years	Previous Irrigation System Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil								
										10/14/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal				
3086	38	YES	Twice per year	Sprinklers	check the field		15	Rill Irrigation		10/14/2015	2016	0	0	0	0	0	0	0	0	0	Triticale	8 Tons				2016		A	S, S, S	M, D, D	2	
										1 ft	2015	20	0	225	0	0	0	245			Triticale	8 Tons	Corn	25 Tons	Good	Planned	B	S, S, S	M, D, D	1.5		
										2 ft	2014	60	0	225	0	0	0	285			Triticale	8 Tons	Corn	25 Tons			C	S, S, S	M, D, D	1.2		
										3 ft	2013	60	0	225	0	0	0	285			Triticale	8 Tons	Corn	25 Tons			D	S, S, S	M, D, D	1.5		
										4 ft	2012	0	0	0	0	0	0	0										E				
										5 ft	Comments																					
										6 ft																						
										TOTAL																						
										NH4-N																						
										ORGANIC PERCENT																						
3087	15	YES	Once per Year	Sprinklers	Routine Schedule		10			10/14/2015	2016	0	0	0	0	0	0	0	0	0	Alfalfa	10 Tons				2016		A	S, S, S, SH	M, D, M, M	2.2	
										1 ft	2015	0	266	0	0	0	0	266			Alfalfa	10 Tons			Good	Planned	B	S, S, S	M, D, M	1.8		
										2 ft	2014	0	266	0	0	0	0	266			Sudan Grass	10 Tons	Triticale	10 Tons			C	S, S	M, D	2.5	5	
										3 ft	2013	0	266	0	0	0	0	266			Sudan Grass	10 Tons	Triticale	10 Tons			D	S, S	M, D	2.1	4	
										4 ft	2012	0	0	0	0	0	0	0										E				
										5 ft	Comments																					
										6 ft																						
										TOTAL																						
										NH4-N																						
										ORGANIC PERCENT																						
3088	10	NO	N/A	Rill Irrigation	Routine Schedule		100	Rill Irrigation		10/14/2015	2016	0	0	0	0	0	0	0	0	0						2015		A	S, SH, SH	D, Dp, W	3.3	
										1 ft	2015	0	0	0	0	0	0	0			Alfalfa	9 Tons			Good	Actual	B	S, SH, SH	D, Dp, W	5.3		
										2 ft	2014	0	0	0	0	0	0	0			Alfalfa	8 Tons					C	S, SH, SH	D, Dp, W	1.4		
										3 ft	2013	0	0	0	0	0	0	0			Alfalfa	7 Tons					D	S, SH, SH	D, Dp, W	1.9		
										4 ft	2012	0	0	0	0	0	0	0			Alfalfa	8 Tons					E					
										5 ft	Comments																					
										6 ft	No nutrients applied last 5 years																					
										TOTAL																						
										NH4-N																						
										ORGANIC PERCENT																						

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ID	Acres				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History						Soil					
	Acres	Soil Testing?	Test Frequency	Current Irrigation System	10/14/2015	10/15/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal	
	20	YES	Once per Year	Sprinklers	1 ft 207	1 ft 86	2016	0	0	0	0	0	0	0	Alfalfa	9 Tons			Crop Condition	A	S, S, S, S, S	M, Dp, Dp, Dp, Dp	2.8		
3089	20	YES	Once per Year	Sprinklers	2 ft 276	2 ft 43	2015	100	0	0	0	0	0	100	Barley	3.5 Tons			Good	Planned	B	S, S, S, S, S	M, Dp, Dp, Dp, Dp	3	
					3 ft 290	3 ft 46	2014	100	0	0	0	0	0	100	Corn Grain	6 Tons					C	S, S, S, S, S	M, Dp, Dp, Dp, Dp	2.7	
					4 ft 166	4 ft 56	2013	100	0	0	0	0	0	100	Corn Grain	6 Tons					D	S, S, S,	M, Dp, Dp	1.8	
					5 ft 130	5 ft 19	2012	0	0	0	0	0	0	0							E				
					6 ft 80	6 ft 4	Comments: Manure application in spring													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented					
					TOTAL 1149	TOTAL 254														Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet					
					NH4-N 29	NH4-N 25																			
					ORGANIC PERCENT 2.49	ORGANIC PERCENT 2.41																			
					Previous Years 100	Previous Years 10																			
3090	33	YES	Twice per year	Sprinklers	1 ft 51	1 ft 86	2016	0	0	0	0	0	0	0	Alfalfa	9 Tons			Fair	Planned	A	S, S	M, Dp	1.9	
					2 ft 28	2 ft 43	2015	0	350	0	0	0	0	350	Triticale	10 Tons	Sudan Grass	6 Tons			B	S, S	M, Dp	1.8	
					3 ft 25	3 ft 46	2014	0	350	0	0	0	0	350	Triticale	9 Tons	Sudan Grass	7 Tons			C	S, S	M, Dp	1.6	
					4 ft 42	4 ft 56	2013	0	350	0	0	0	0	350	Triticale	10 Tons	Sudan Grass	7 Tons			D	S, S	M, Dp	1.1	
					5 ft 40	5 ft 19	2012	0	0	0	0	0	0	0							E				
					6 ft 33	6 ft 4	Comments: Manure application in spring													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented					
					TOTAL 219	TOTAL 254														Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet					
					NH4-N 36	NH4-N 25																			
					ORGANIC PERCENT 2.29	ORGANIC PERCENT 2.41																			
					Previous Years 100	Previous Years 10																			
3091	45	YES	Once per Year	Sprinklers	1 ft 86	1 ft 86	2016	150	0	0	0	0	0	150	Alfalfa	9 Tons			Fair	Planned	A	S	M	6	
					2 ft 43	2 ft 43	2015	300	0	0	0	0	0	300	Alfalfa	8.5 Tons					B	S	M	6	
					3 ft 46	3 ft 46	2014	300	0	0	0	0	0	300	Alfalfa	9 Tons					C	S	M	4	4
					4 ft 56	4 ft 56	2013	300	0	0	0	0	0	300	Alfalfa	9.5 Tons					D	S	M	2.5	4
					5 ft 19	5 ft 19	2012	0	0	0	0	0	0	0							E				
					6 ft 4	6 ft 4	Comments: Split applications - 150 lbs thru pivot point in spring, 150 lbs thru pivot point in fall													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented					
					TOTAL 254	TOTAL 254														Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet					
					NH4-N 25	NH4-N 25																			
					ORGANIC PERCENT 2.41	ORGANIC PERCENT 2.41																			
					Previous Years 100	Previous Years 10																			

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ID	Acres		Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil					
	10/15/2015												Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal	
	1 ft	2 ft																							Crop Condition	Planned						
3092	36		YES	Once per Year	Current Irrigation System	Sprinklers	Routine Schedule	24	20	Previous Irrigation System	Unknown			10/15/2015		Fertilizer Applications (#N/Acre)							Cropping History					Soil 138 - Sinloc Fine Sandy Loam 0-2% Slopes				
	1 ft		2016	0										0	0	0	0	0	0	Alfalfa	8	Tons			2016		A	S, S	M, Dp	2		
	2 ft																								Crop Condition							Planned
	3 ft		2015	0										0	0	0	0	0	0	Alfalfa	8	Tons			2016		B	S, S, S	M, Dp, Dp	1.8		
	4 ft																								Crop Condition							Planned
	5 ft		2014	0										0	0	0	0	0	0	Alfalfa	7	Tons			2016		C	S, S, S, S	M, Dp, Dp, Dp	2		
	6 ft																								Crop Condition							Planned
	TOTAL		2013	0										0	0	0	0	0	0	Alfalfa	9	Tons			2016		D	S, S, S	M, Dp, Dp	2		
	NH4-N																								Crop Condition							Planned
	ORGANIC PERCENT		2012	0										0	0	0	0	0	0						2016		E					
		Crop Condition			Planned																											
Comments													No nutrients have been added since 2012							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												
																				Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet												
3093	80		YES	Once per Year	Current Irrigation System	Sprinklers	Routine Schedule	Check the soil	6	Previous Irrigation System	Unknown			10/15/2015		Fertilizer Applications (#N/Acre)							Cropping History					Soil 177 - Warden Silt Loam 2-5% Slopes				
	1 ft		2016	0										0	0	0	0	0	0	Alfalfa	10	Tons			2016		A	S, S, S, S	M, M, Dp, Dp	1.8		
	2 ft																								Crop Condition							Planned
	3 ft		2015	0										0	50	0	0	0	50	Alfalfa	10	Tons			2016		B	S, S, S, S	M, M, Dp, Dp	1.9		
	4 ft																								Crop Condition							Planned
	5 ft		2014	0										0	50	0	0	0	50	Alfalfa	10	Tons			2016		C	S, S, S, S	M, M, Dp, Dp	2		
	6 ft																								Crop Condition							Planned
	TOTAL		2013	0										0	50	0	0	0	50	Alfalfa	10	Tons			2016		D	S, S, S, S	M, M, Dp, Dp	1.5		
	NH4-N																								Crop Condition							Planned
	ORGANIC PERCENT		2012	0										0	0	0	0	0	0						2016		E					
		Crop Condition			Planned																											
Comments													N is applied in the spring							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												
																				Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet												
3094	35		YES	Twice per year	Current Irrigation System	Sprinklers	Routine Schedule	Check Soil	16	Previous Irrigation System	Rill Irrigation			10/15/2015		Fertilizer Applications (#N/Acre)							Cropping History					Soil 175 - Warden fine silty loam 8 to 15 percent slopes				
	1 ft		2016	190										0	0	0	0	0	190	Triticale	7	Tons			2016		A	S	M	2		
	2 ft																								Crop Condition							Planned
	3 ft		2015	320										0	0	0	0	0	320	Triticale	8	Tons	Corn Silage	27	Tons	2016		B	S	M	1.8	
	4 ft																									Crop Condition						
	5 ft		2014	360										0	0	0	0	0	360	Triticale	7	Tons	Corn Silage	27	Tons	2016		C	S	M	1.6	
	6 ft																									Crop Condition						
	TOTAL		2013	342										0	0	0	0	0	342	Triticale	7	Tons	Corn Silage	25	Tons	2016		D	S	M	1	
	NH4-N																									Crop Condition						
	ORGANIC PERCENT		2012	0										0	0	0	0	0	0						2016		E					
		Crop Condition			Planned																											
Comments													Liquid manure is applied twice a year. Split Application. In current year, only 1 application has occurred.							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												
																				Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet												

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ID	Acres			NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History					Soil							
	75	Soil Testing?	YES	10/15/2015		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal
	Test Frequency	Once per Year	Current Irrigation System	1 ft	60	2016	0	0	0	0	0	0	0	Triticale	10 Tons			Crop Condition	A	S, S, S	M, M, Dp	1.4		
3095	Type			2 ft		2015	0	0	0	0	0	0	0	Triticale	Tons	Corn Silage	Tons	Good	Planned	B	S, S, S	M, M, Dp	0.8	4
	Schedule			3 ft		2014	0	0	0	0	0	0	0	Triticale	Tons	Corn Silage	Tons			C	S, S	M, Dp	0.9	4
	Hour Sets			4 ft		2013	0	0	0	0	0	0	0	Triticale	tons					D	S, S, S	M, M, Dp	2.8	4
	Current Years			5 ft		2012	0	0	0	0	0	0	0							E				
	Previous Irrigation System			6 ft		Comments This field has had a history of manure application for double cropping. The property changed ownership and application records and yield records were not available.																		
	Type			TOTAL		Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
	Previous Years			NH4-N		Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																		
				ORGANIC PERCENT																				
				1.92																				
3096	Acres			NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History					Soil							
	16	Soil Testing?	YES	10/16/2015		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal
	Test Frequency	Twice per year	Current Irrigation System	1 ft	27	2016	0	0	0	0	0	0	0	Triticale	9 Tons			Crop Condition	A	S, S, S, S, S, S	M, M, M, M, Dp, M	2.9		
	Type	Sprinklers	Schedule	2 ft	8	2015	0	0	0	0	0	0	0	Triticale	7 Tons	Sudan Grass	7 Tons	Good	Planned	B	S, S, S, S, S	M, M, Dp, M, Dp	3	
	Schedule	Routine Schedule	Hour Sets	3 ft	10	2014	0	0	251	0	0	0	251	Triticale	8 Tons	Sudan Grass	7 Tons			C	S, S, S, S, S, S, S	M, M, M, Dp, M, Dp, M, Dp	2.4	
	Current Years	2	Previous Irrigation System	4 ft	17	2013	0	225	0	0	0	0	225	Triticale	7 Tons	Corn Silage	24 Tons			D	S, S, S, S, S	M, M, M, Dp, M, Dp	3	
	Previous Years		Type	5 ft	47	2012	0	0	0	0	0	0	0							E				
			Other - Big gun irrigation reel	6 ft	19	Comments No nutirents appllied in 2015																		
				TOTAL	128	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
				NH4-N	44	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																		
3097	Acres			NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History					Soil							
	60	Soil Testing?	YES	10/16/2015		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal
	Test Frequency	Twice per year	Current Irrigation System	1 ft	336	2016	0	0	0	0	0	0	0	Triticale	9 Tons			Crop Condition	A	S, S, S, SH, S, S	M, M, M, M, M, M	1.4		
	Type	Sprinklers	Schedule	2 ft	363	2015	0	0	0	170	0	0	170	Triticale	9 Tons	Corn Silage	28 Tons	Good	Planned	B	S, S, S, SH, S, S	M, M, M, M, M, M	1.1	
	Schedule	Routine Schedule	Hour Sets	3 ft	335	2014	0	0	0	170	0	0	170	Triticale	9 Tons	Corn Silage	28 Tons			C	S, S, SH, S, S	M, M, M, M, M	1.5	
	Current Years	7	Previous Irrigation System	4 ft	263	2013	0	0	0	170	0	0	170	Triticale	9 Tons	Corn Silage	28 Tons			D	S, S, S, SH, S, S	M, M, M, M, M, M	1.7	
	Previous Years		Type	5 ft	113	2012	0	0	0	0	0	0	0							E				
			Sprinklers - Wheel Lines	6 ft	64	Comments Bio solids applied in spring																		
				TOTAL	1474	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
				NH4-N	28	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																		

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3098	Acres	35	NO3 (#N/ACRE) 10/16/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil 172 - Warden Fine Sandy Loam 0-2% Slopes								
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal			
	Test Frequency	Once per Year		1 ft	35	2016	0	0	0	0	0	0					Good	Actual	A	S	M	2.5		
	Current Irrigation System			2 ft	11	2015	0	0	100	0	0	0	100	Wheat	9 Tons				B	S	M	2.1		
	Type	Sprinklers		3 ft	16	2014	0	0	100	0	0	0	100	Wheat	9 Tons	Sudan Grass			4 Tons	C	S	M	2.3	
	Schedule	Routine Schedule		4 ft	12	2013	0	0	100	0	0	0	100	Wheat	9 Tons	Sudan Grass			4 Tons	D	S	M	2.8	
	Hour Sets	24		5 ft	24	2012	0	0	0	0	0	0	0						E					
	Current Years	20		6 ft	15	Comments																		
	Previous Irrigation System			TOTAL	113																			
	Type			NH4-N	40																			
Previous Years		ORGANIC PERCENT	1.46																					
																	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented							
																	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet							

3099	Acres	40	NO3 (#N/ACRE) 10/16/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil 32 - Esquatzel Silt Loam 0-2% Slopes							
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
	Test Frequency	Once per Year		1 ft	179	2016	0	0	0	0	0	0					Fair	Actual	A	S, S, S, S, S	D, M, M, M, M	2	
	Current Irrigation System			2 ft	151	2015	0	0	200	0	0	0	200	Corn Silage	28 Tons				B	S, S, S, S, S	D, M, M, M, M	2	
	Type	Sprinklers		3 ft	77	2014	0	0	200	0	0	0	200	Corn Silage	28 Tons				C	S, S, S, S, S	D, M, M, M, M, M	2.4	
	Schedule	Routine Schedule		4 ft	54	2013	0	0	200	0	0	0	200	Corn Silage	28 Tons				D	S, S, S, S, S	D, M, M, M, M	2.2	
	Hour Sets	Check the Soil		5 ft	90	2012	0	0	0	0	0	0	0						E				
	Current Years	30		6 ft	56	Comments																	
	Previous Irrigation System			TOTAL	607																		
	Type			NH4-N	15																		
Previous Years		ORGANIC PERCENT	1.65																				
																	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented						
																	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet						

3100	Acres	35	NO3 (#N/ACRE) 10/18/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil 174 - Warden Fine Sandy Loam 5-8% Slopes							
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
	Test Frequency	Once per Year		1 ft	79	2016	0	0	0	0	0	0					Good	Actual	A	S	M	3.4	
	Current Irrigation System			2 ft	41	2015	0	0	200	0	0	0	200	Corn Silage	30 Tons				B	S	M	3.3	
	Type	Rill Irrigation		3 ft	68	2014	0	0	200	0	0	0	200	Corn Silage	30 Tons				C	S	M	3.3	
	Schedule	Routine Schedule		4 ft	76	2013	0	0	200	0	0	0	200	Corn Silage	30 Tons				D	S	M	3.7	
	Hour Sets	Check the soil		5 ft	61	2012	0	0	0	0	0	0	0						E				
	Current Years			6 ft	27	Comments																	
	Previous Irrigation System			TOTAL	352																		
	Type	Sprinklers - Pivot		NH4-N	22																		
Previous Years		ORGANIC PERCENT	1.4																				
																	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented						
																	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet						

Deep Soil Sampling - Fall 2015

ID	Acres	Soil Testing?	Test Frequency	Current Irrigation System Type	Schedule	Hour Sets	Current Years	Previous Irrigation System Type	Previous Years	NO3 (#N/ACRE) 10/18/2015	Year	Fertilizer Applications (#N/Acre)							Cropping History					Soil						
												Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal	
3101	20	YES	Once per Year	Sprinklers	Routine Schedule	12	20	Sprinklers - Hand Lines		10/18/2015	2016	0	0	0	0	0	0						177 - Warden Silt Loam 2-5% Slopes							
	1 ft	54	2015							0	0	0	0	0	0															
					Sprinklers	Routine Schedule	12	20	Sprinklers - Hand Lines		2 ft	9	2016	0	0	0	0	0						Hole	Consistance	Moisture	Roots	Refusal		
	3 ft	5	2015	0							0	0	0	0	0															
					Sprinklers	Routine Schedule	12	20	Sprinklers - Hand Lines		4 ft	7	2014	0	0	0	0	0						Good	Crop Condition					
	5 ft	22	2013	0							0	60	0	0	0	60														
					Sprinklers - Hand Lines	Routine Schedule	12	20	Sprinklers - Hand Lines		6 ft	18	2012	0	0	0	0	0	0						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
	TOTAL	115	ORGANIC PERCENT	2.38							Comments	120 mature milking cows 6 hours a day																		
					Sprinklers - Hand Lines	Routine Schedule	12	20	Sprinklers - Hand Lines		NH4-N	46																		
	Hour Sets	12	Current Years	20							Previous Years																			
3102	55	YES	Twice per year	Sprinklers	Routine Schedule	Check the soil	7	Rill Irrigation		10/18/2015	2016	0	0	0	0	0	0	Alfalfa	10	Tons				32 - Esquatzel Silt Loam 0-2% Slopes						
	1 ft	46	2015							10	0	0	0	0	10	Alfalfa	10	Tons												
					Sprinklers	Routine Schedule	Check the soil	7	Rill Irrigation		2 ft	17	2014	0	0	0	0	0	Triticale	8	Tons	Sudan Grass	6	Tons	Good	Planned				
	3 ft	13	2013	0							0	0	0	48	0	48	Corn Silage	29	Tons	Triticale	8	Tons								
					Sprinklers	Routine Schedule	Check the soil	7	Rill Irrigation		4 ft	52	2012	0	0	0	0	0							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
	5 ft		Comments: The 8 ton per acre compost application = 48 lbs of N applied per acre; No nutirents applied in 2014.																											
					Sprinklers	Routine Schedule	Check the soil	7	Rill Irrigation		TOTAL	128																		
	Hour Sets	Check the soil	Current Years	7							Previous Years																			
					Rill Irrigation	Routine Schedule	Check the soil	7	Rill Irrigation		NH4-N	27																		
	Hour Sets	Check the soil	Current Years	7							Previous Years																			
				Rill Irrigation	Routine Schedule	Check the soil	7	Rill Irrigation		ORGANIC PERCENT	2.89																			
Hour Sets	Check the soil	Current Years	7							Previous Years																				
3103	65	NO	N/A	Sprinklers	Sprinklers	24	25	Not Sure		10/20/2015	2016	0	0	0	0	0	0							178 - Warden Silt Loam 5-8% Slopes						
	1 ft	12	2015							30	0	0	0	0	30	Grass hay	2.5	Tons	Cows											
					Sprinklers	Sprinklers	24	25	Not Sure		2 ft	4	2014	30	0	0	0	0	30	Grass hay	2.5	Tons	Cows			Good	Actual			
	3 ft	7	2013	30							0	0	0	0	30	Grass hay	2.5	Tons	Cows											
					Sprinklers	Sprinklers	24	25	Not Sure		4 ft	5	2012	30	0	0	0	0	30	Grass hay	2.5	Tons	Cows			Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet			
	5 ft	7	Comments: Split application; 15 lbs N per Acre in Spring, 15 lbs N per Acre in fall																											
					Sprinklers	Sprinklers	24	25	Not Sure		TOTAL	38																		
	Hour Sets	24	Current Years	25							Previous Years																			
					Sprinklers	Sprinklers	24	25	Not Sure		NH4-N	19																		
	Hour Sets	24	Current Years	25							Previous Years																			
				Sprinklers	Sprinklers	24	25	Not Sure		ORGANIC PERCENT	1.73																			
Hour Sets	24	Current Years	25							Previous Years																				

Deep Soil Sampling - Fall 2015

ID	Soil Testing				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History				Soil							
	Acres	Soil Testing?	Test Frequency	Type	10/20/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
3104	80	NO	N/A	Current Irrigation System: Sprinklers	17	2016	0	0	0	0	0	0						Fair	A	SH, SH, SH, SH	M, M, Dp, Dp	2.2	3.2		
				Schedule: Routine Schedule	3	2015	30	0	0	0	0	0	30						Just Graz	B	SH, SH	M, M	2.9	3.1	
				Hour Sets: 24	3	2014	30	0	0	0	0	0	30	Grass Hay	2.5 Tons	Cows				C	SH, SH, SH	M, M, Dp	2.3	3	
				Current Years: 20	3	2013	30	0	0	0	0	0	30	Grass Hay	2.5 Tons	Cows				D	SH, SH, SH	M, M, Dp	2.2	3.6	
				Previous Irrigation System: Not sure	17	2012	30	0	0	0	0	0	30	Grass Hay	2.5 Tons	Cows				E					
				Type: Not sure	26	Comments: Split application; 15 lbs N per Acre in Spring, 15 lbs N per Acre in fall; Because of drought, no hay was made in the 2015 Season. Only 100 beef cows in August grazed off pasture.																			
				Previous Years:	28	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																			
					ORGANIC PERCENT: 2.42	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																			
3105	20	YES	Once per Year	Current Irrigation System: Rill Irrigation	371	2016	0	0	0	0	0	0		Triticale	10 Tons				2016	A	S, FI, FI, FI	M, Dp, Dp, Dp	1.4		
				Schedule: Routine Schedule	58	2015	0	200	0	0	0	0	200	Corn Silage	30 Tons				Good	Planned	B	S, FI, FI, FI, S	M, Dp, Dp, Dp, M	1.7	
				Hour Sets: Check soil	18	2014	0	200	0	0	0	0	200	Corn Silage	25 Tons						C	S, FI, FI, FI, FI, FI	M, Dp, Dp, Dp, Dp, Dp	1.3	
				Current Years: 30	9	2013	0	200	0	0	0	0	200	Corn Silage	28 Tons						D	S, FI, FI, FI, FI, FI	M, Dp, Dp, Dp, Dp, Dp	1.3	
				Previous Irrigation System:	20	2012	0	0	0	0	0	0	0							E					
				Type:	68	Comments: Nutrients applied in the spring; Note irrigation - uses Rill on Corn and Wheel-line for triticale																			
				Previous Years:	544	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																			
					NH4-N: 67	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																			
					ORGANIC PERCENT: 1.83																				
3106	35	YES	Twice per year	Current Irrigation System: Sprinklers	316	2016	150	0	0	0	0	150		Triticale	10 Tons				2016	A	S, S, S, S, FI, FI	M, M, M, M, M, M	1.4		
				Schedule: Routine Schedule	445	2015	300	0	0	0	0	300		Triticale	9 Tons	Corn Silage	37 Tons		Good	Planned	B	S, S, S, S, FI, FVI	M, M, M, M, M, M	3.2	
				Hour Sets: Check Soil	465	2014	300	0	0	0	0	300		Triticale	8 Tons	Corn Silage	41 Tons				C	S, S, S, S, FI, FVI	M, M, M, M, M, M	3.4	
				Current Years: 14	248	2013	300	0	0	0	0	300		Triticale	10 Tons	Corn Silage	36 Tons				D	S, S, S, S, VFI	M, M, M, M, M	3.1	
				Previous Irrigation System: Rill Irrigation	256	2012	0	0	0	0	0	0								E					
				Type: Rill Irrigation	222	Comments: Split application 150 lbs N in Spring 150 lbs N in Fall																			
				Previous Years:	1952	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																			
					NH4-N: 15	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																			
					ORGANIC PERCENT: 0.95																				

Deep Soil Sampling - Fall 2015

ID	Acres			NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History					Soil																									
	Acres	Soil Testing?	Test Frequency	10/21/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal																				
3107	35	YES	Twice per year	10/21/2015	2016	0	0	0	0	0	0	0	Triticale	10	Tons			Fair	Planned	Crop Condition	A	S, S, FI, S	M, M, M, Dp	3.2																		
	Current Irrigation System	1 ft	96	2015																	127	0	0	0	0	0	127	Corn Silage	26	Tons						B	S, S, FI, S	M, M, M, Dp	2.8			
	Schedule	2 ft	70	2014																	0	0	0	0	0	0	0									C	S, S, FI, S	M, M, M, Dp	3.2			
	Type	3 ft	164	2013																	0	0	0	0	0	0	0									D	S, S, FI, S	M, M, M, Dp	3.3			
	Blank	4 ft	182	2012																	0	0	0	0	0	0	0									E						
	Hour Sets	5 ft	120	Comments Only one year of history available, but there is a known history of annual manure application																																						
	Current Years	6 ft	44																																							
	Previous Irrigation System	TOTAL	676																																							
	Type	NH4-N	22																																							
	Blank	ORGANIC PERCENT	2.48																																							
	Previous Years																																									
																						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																				
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				
3108	24	YES	Twice per year	10/21/2015	2016	211	0	0	0	0	0	211	Triticale	10	Tons			Fair	Planned	Crop Condition	A	S, S	M, M	2.5																		
	Current Irrigation System	1 ft	311	2015																	82	0	150	0	0	0	232	Triticale	8	Tons	Corn Silage	28	Tons				B	S, FI, S, S	M, M, M, M	3.4		
	Schedule	2 ft	465	2014																	0	0	0	0	0	0	0										C	S, FI, VFI, S	M, M, M, M	1.4		
	Type	3 ft	612	2013																	0	0	0	0	0	0	0										D	S, FI, VFI, FI, S	M, M, M, M, M	3		
	Watch the corn	4 ft	684	2012																	0	0	0	0	0	0	0										E					
	Hour Sets	5 ft	247	Comments 82 lbs N thru pivot onto triticale in spring, 150 N thru pivot for corn crop. Only one year history available but field has had a history of annual manure application.																																						
	Current Years	6 ft	264																																							
	Previous Irrigation System	TOTAL	2583																																							
	Type	NH4-N	27																																							
	Blank	ORGANIC PERCENT	2.66																																							
	Previous Years																																									
																						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																				
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				
3109	36	YES	Twice per year	10/21/2015	2016	31	0	0	0	0	0	31	Triticale	10	Tons			Good	Planned	Crop Condition	A	S	M	4.5																		
	Current Irrigation System	1 ft	82	2015																	29	0	150	0	0	0	179	Triticale	8	Tons	Corn Silage	29	Tons				B	S	M	2.6		
	Schedule	2 ft	60	2014																	0	0	0	0	0	0	0										C	S	M	3.5	4	
	Blank	3 ft	223	2013																	0	0	0	0	0	0	0										D	S	M	3.8	4	
	Hour Sets	4 ft	238	2012																	0	0	0	0	0	0	0										E					
	Current Years	5 ft	56	Comments All nutrients applied thru the pivot. Only one year history available, but field has a known history of having manure applied on a annual basis.																																						
	Previous Irrigation System	6 ft	100																																							
	Type	TOTAL	759																																							
	Blank	NH4-N	12																																							
	Previous Years	ORGANIC PERCENT	1.48																																							
																							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																			
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				

Deep Soil Sampling - Fall 2015

ID	Acres		Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Check soil	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE) 10/22/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil								
	Liquid Manure	Solid Manure													Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal						
3110	32		YES	Twice per year		Sprinklers	Routine Schedule		Check soil	11		Rill Irrigation		10/22/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal			
	1 ft	93												2016	100	0	0	0	0	0	0	100	Triticale	11 Tons			Good	Planned	A	S, S, FI	M, M, M	4.9			
	2 ft	100												2015	280	0	60	0	0	0	0	340	Triticale	11.6 Tons	Corn Silage	38 Tons			B	S, S, FI	M, M, M	3.5			
	3 ft	125												2014	300	0	125	0	0	0	0	425	Triticale	11 Tons	Corn Silage	34 Tons			C	S, S, FI	M, M, M	4.3			
	4 ft	154												2013	280	0	50	0	0	0	0	330	Triticale	12 Tons	Corn Silage	30 Tons			D	S, S, FI, S	M, M, M, M	4.2			
	5 ft	283												2012	0	0	0	0	0	0	0	0							E						
	6 ft	413												TOTAL	1168																				
															NH4-N	34																			
															ORGANIC PERCENT	2.19																			
															Comments	Split application of liquid manure, half in fall and half in spring							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												
	3111	40		YES	Twice per year		sprinklers	Routine Schedule		check soil	10		Drip		10/22/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal		
1 ft		35												2016	170	0	0	0	0	0	0	170	Triticale	10 Tons			Good	Planned	A	S, HA	M, M	1.2	1.6		
2 ft		45												2015	300	0	0	0	0	0	0	300	Triticale	12.5 Tons	Corn Silage	17.8 Tons			B	S, HA	M, M	1.1	1.1		
3 ft														2014	300	0	0	0	0	0	0	300	Triticale	18 Tons	Corn Silage	30 Tons			C	S, HA	M, M	1.2	1.5		
4 ft														2013	300	0	75	0	0	0	0	375	Triticale	15 Tons	Corn Silage	33.3 Tons			D	S	M	0.9	1		
5 ft														2012	0	0	0	0	0	0	0	0							E						
6 ft														TOTAL	80																				
															NH4-N	24																			
															ORGANIC PERCENT	1.59																			
															Comments	Split application of liquid manure 150 lbs in fall 150 lbs in spring							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												
3112		66		YES	Twice per year		Sprinklers	Routine Schedule		check soil	8		Sprinklers - Wheel Lines		10/22/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal		
	1 ft	39												2016	75	0	0	0	0	0	0	75	Triticale	10 Tons			Good	Planned	A	S	M	2.4			
	2 ft	73												2015	75	0	85	0	0	0	0	160	Triticale	12 Tons	Corn Silage	35.6 Tons			B	S	M	1.7			
	3 ft	87												2014	75	0	40	0	0	0	0	115	Triticale	10 Tons	Corn Silage	32.3 Tons			C	S	M	3.4			
	4 ft	95												2013	75	0	0	0	0	0	75	Triticale	11 Tons	Corn Silage	30 Tons			D	S	M	2.2	5.7			
	5 ft	47												2012	0	0	0	0	0	0	0	0							E						
	6 ft	38												TOTAL	379																				
															NH4-N	22																			
															ORGANIC PERCENT	1.87																			
															Comments	Liquid manure fall application on triticale commerical N side dress with corn planting							Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented												

Deep Soil Sampling - Fall 2015

ID	Acres	Soil Testing?	Test Frequency	Current Irrigation System Type	Schedule	Hour Sets	Current Years	Previous Irrigation System Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil							
										10/22/2015		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal	
										1 ft	2 ft													ORGANIC PERCENT	PERCENT						Comments
3113	74	YES	Twice a Year	Sprinklers	Routine Schedule	Check Soil	8	Sprinklers - Wheel-line		10/22/2015	49	1435	19	1.71										178 - Warden Silt Loam 5-8% Slopes							
										1 ft	49																				
										2 ft	150																				
										3 ft	308																				
										4 ft	308	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
										5 ft	340	2015	75	0	0	0	0	0	0	75	Alfalfa	10	Tons								
										6 ft	280	2014	75	0	0	0	0	0	75	Triticale	10	Tons	Alfalfa	4.2	Tons						
										TOTAL	1435	2013	75	0	45	0	0	0	120	Triticale	11	Tons	Corn Silage	30	Tons						
										NH4-N	19	2012	75	0	0	0	0	0	75												
										ORGANIC PERCENT	1.71	Comments: Liquid manure fall application							Crop Condition		2016										
																			Good		Planned										
3114	36	YES	Twice a Year - Fall	Rill Irrigation	Routine Schedule	8-Dav Rotation	100	Unknown		10/22/2015	131	266	10	1.55											177 - Warden Silt Loam 2-5% Slopes						
										1 ft	131																				
										2 ft	22																				
										3 ft	36	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
										4 ft	18	2015	0	100	0	0	0	0	100	Corn Silage	34	Tons									
										5 ft	28	2014	0	150	0	0	0	0	150	Corn Silage	35	Tons									
										6 ft	31	2013	0	200	0	0	0	0	200	Corn Silage	31	Tons									
										TOTAL	266	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
										NH4-N	10	Comments							Crop Condition		2015										
										ORGANIC PERCENT	1.55								Good		Actual										
	3115	40	YES	Twice per year	Sprinklers	Routine Schedule		10	Rill Irrigation		10/22/2015	82	819	14	1.67											179 - Warden Silt Loam 8-15% Slopes					
										1 ft	82																				
										2 ft	90																				
										3 ft	149	2016	150	0	0	0	0	0	150	Triticale	10	Tons									
										4 ft	111	2015	300	0	0	0	0	0	300	Triticale	10	Tons	Sorgummilo	18	Tons						
										5 ft	192	2014	300	0	0	0	0	0	300	Triticale	18	Tons	Corn Silage	30	Tons						
										6 ft	195	2013	300	0	75	0	0	0	375	Triticale	14	Tons	Corn Silage	33	Tons						
										TOTAL	819	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
										NH4-N	14	Comments: Split application of liquid manure, 150 lbs N in spring, 150 lbs N in fall							Crop Condition		2016										
										ORGANIC PERCENT	1.67								Good		Planned										

Deep Soil Sampling - Fall 2015

ID	Soil Testing				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History						Soil				
	Acres	Soil Testing?	Test Frequency	Current Irrigation System	10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal	
	30	YES	One a Year	Rill Irrigation	1 ft	2016	0	0	0	0	0	0	0	Corn	180 Bushels			Good	A	S	M	1.9		
3116					2 ft	2015	50	0	150	0	0	0	200	Corn	180 Bushels			Good	B	S	M	2.2		
					3 ft	2014	50	0	150	0	0	0	200	Corn	180 Bushels				C	S	M	3.7		
					4 ft	2013	50	0	150	0	0	0	200	Corn	180 Bushels				D	S	M	2.7		
					5 ft	2012	0	0	0	0	0	0	0	Corn	25 Bushels				E					
					6 ft	Comments																		
					TOTAL																			
					NH4-N																			
					ORGANIC PERCENT																			
					Current Years																			
					Previous Years																			
Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								
3117					1 ft	2016	0	0	0	0	0	0	0	Grapes	6 Tons			Fair	A	S, S, S	D, M, M	3.9	4	
					2 ft	2015	0	0	0	0	0	0	0	Grapes	6 Tons			Fair	B	S, S, S	D, M, M	3.6	4	
					3 ft	2014	0	0	0	0	0	0	0	Grapes	9 Tons				C	S, S, S, S, S	D, M, M, M, M	2.3	4	
					4 ft	2013	0	0	0	0	0	0	0	Grapes	6 Tons				D	S, S, S, S, S	D, M, M, M, M	1.8	4	
					5 ft	2012	0	0	0	0	0	0	0						E					
					6 ft	Comments: This is an organic grape vineyard. We use vetch legume with triticale as a cover crop and the vetch does nitrogen fixing.																		
					TOTAL																			
					NH4-N																			
					ORGANIC PERCENT																			
					Current Years																			
				Previous Years																				
Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								
3118					1 ft	2016	0	0	0	0	0	0	0					Good	A	S	D	1.8	1.8	
					2 ft	2015	0	0	70	0	0	0	70	Apples	53 Bins			Good	B	S	D	1.8	1.8	
					3 ft	2014	0	0	50	0	0	0	50	Apples	55 Bins				C	S	D	1.9	1.9	
					4 ft	2013	0	0	50	0	0	0	50	Apples	50 Bins				D	S	D	1.7	1.7	
					5 ft	2012	0	0	0	0	0	0	0	Apples	50 Bins				E					
					6 ft	Comments																		
					TOTAL																			
					NH4-N																			
					ORGANIC PERCENT																			
					Current Years																			
				Previous Years																				
Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								

Deep Soil Sampling - Fall 2015

ID	Acres				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil							
	Acres	Soil Testing?	Test Frequency	Current Irrigation System	10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal			
	15	YES	Every 2 Years	Sprinklers	1 ft	2016	0	0	0	0	0	0	0					Good	A	S, S, FI	M, M, D	5.3	5.8			
3119	Schedule				2 ft	2015	0	0	50	0	0	0	50	Grapes	9.5 Tons			Actual	B	S, S	M, M	3.2	4			
	Type				3 ft	2014	0	0	50	0	0	0	50	Grapes	6 Tons				C	S, S	M, M	3.3	3.8			
	Schedule				4 ft	2013	0	0	50	0	0	0	50	Grapes	4 Tons				D	S, S, FI, L	M, M, M, M	3	4			
	Type				5 ft	2012	0	0	0	0	0	0	0	Grapes	10.5 Tons				E							
	Schedule				6 ft	Comments	Previous farmer 40 years ago had a history of excessive nitrogen application according to current farmer																			
	Type				TOTAL																					
	Hour Sets				NH4-N																					
	Current Years				ORGANIC PERCENT																					
	Previous Irrigation System																									
	Previous Years																									
																						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented				
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
3120	Acres				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil							
	Acres	Soil Testing?	Test Frequency	Current Irrigation System	10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal			
	35	YES	Every Other Year	Sprinkler	1 ft	2016	0	0	0	0	0	0	0					Good	A	S	M	1.4	1.4			
	Schedule				2 ft	2015	0	0	50	0	0	0	50	Grapes	10 Tons			Actual	B	S	M	1.8	2			
	Type				3 ft	2014	0	0	50	0	0	0	50	Grapes	8 Tons				C	S	M	1.6	1.9			
	Schedule				4 ft	2013	0	0	50	0	0	0	50	Grapes	4 Tons				D	S	M	1.1	2			
	Type				5 ft	2012	0	0	0	0	0	0	0	Grapes	10 Tons				E							
	Schedule				6 ft	Comments	No nutirents applied in 2015.																			
	Type				TOTAL																					
	Hour Sets				NH4-N																					
Current Years				ORGANIC PERCENT																						
Previous Irrigation System																										
Previous Years																										
																						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented				
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
3121	Acres				NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil							
	Acres	Soil Testing?	Test Frequency	Current Irrigation System	10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Hole	Consistance	Moisture	Roots	Refusal			
	40	YES	Twice per year	Sprinklers	1 ft	2016	0	0	0	0	0	0	0	Triticale	8 Tons			Planned	A	S	M	3.2				
	Schedule				2 ft	2015	0	0	0	0	0	0	0	Triticale	6.7 Tons	Corn Silage	29 Tons	Good	B	S	M	1.5				
	Type				3 ft	2014	137	0	0	0	0	0	137	Triticale	6.7 Tons	Corn Silage	29 Tons		C	S	M	4.5				
	Schedule				4 ft	2013	293	0	0	0	0	0	293	Triticale	6.6 Tons	Corn Silage	29 Tons		D	S	M	4.6				
	Type				5 ft	2012	0	0	0	0	0	0	0						E							
	Schedule				6 ft	Comments	No nutirents applied in 2015.																			
	Type				TOTAL																					
	Hour Sets				NH4-N																					
Current Years				ORGANIC PERCENT																						
Previous Irrigation System																										
Previous Years																										
																						Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented				
																						Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				

Deep Soil Sampling - Fall 2015

ID	Acres			Soil Testing?	Test Frequency	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History						Soil														
	80					10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal									
	80					10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016	Crop Condition														
3122	Soil Testing? YES			Twice per year	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History						Soil 32 - Esquatzel Silt Loam 0-2% Slopes															
	Current Irrigation System				10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal										
	Type Rill Irrigation and Sprinklers				1 ft	2016	0	0	0	0	0	0	0	Triticale	8	Tons			Good						Planned	A	S, FI, FI, FI, S	M, M, Dp, W, M	1.2					
	Schedule Routine Schedule				2 ft	2015	0	0	215	0	0	0	215	Triticale	9	Tons	Corn Silage	25	Tons															
	Hour Sets 24				3 ft	2014	0	0	60	0	0	60	Corn Silage	28	Tons											C	S, FI, FI, FI, S	M, M, Dp, W, M	1.4					
	Current Years 30				4 ft	2013	0	0	140	0	0	140	Corn Silage	30	Tons											D	S, FI, FI, FI, S	M, M, Dp, W, M	1.1					
	Previous Irrigation System				5 ft	2012	0	0	0	0	0	0														E								
	Type				6 ft	Comments	Comment on Sprinklers - For triticale sprinkles 24 hour sets for corn move ditches every 2 hours. Rill forever sprinklers started 5 years ago. Rill for corn, sprinklers for triticale.																			Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented								
	Previous Years				TOTAL																								Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet					
					NH4-N																													
			ORGANIC PERCENT																															
3123	Acres 40			Soil Testing? YES	Once a Year	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History						Soil														
	Current Irrigation System					10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal									
	Type Rill Irrigation					1 ft	2016	0	0	0	0	0	0							Fair						Actual	A							
	Schedule Every 8 days					2 ft	2015	200	0	0	0	0	0	200	Corn Silage	30	Tons																	
	Hour Sets					3 ft	2014	200	0	0	0	0	200	Corn Silage	26	Tons					C													
	Current Years 100					4 ft	2013	200	0	0	0	0	200	Corn Silage	27	Tons					D													
	Previous Irrigation System					5 ft	2012	0	0	0	0	0	0	Corn Silage	26	Tons					E													
	Type Unknown					6 ft	Comments	Every year																			Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented							
	Previous Years					TOTAL																								Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
						NH4-N																												
			ORGANIC PERCENT																															
3124	Acres 20			Soil Testing? NO	N/A	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)						Cropping History						Soil 177 - Warden Silt Loam 2-5% Slopes														
	Current Irrigation System					10/25/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal									
	Type Rill/Surface Irrigation					1 ft	2016	0	17	0	0	0	0	17	Pasture											Fair		A	S, S, FI	M, M, Dp-W	1			
	Schedule Routine Schedule					2 ft	2015	0	17	0	0	0	0	17	Pasture																			
	Hour Sets 6x a year water					3 ft	2014	0	17	0	0	0	17	Pasture													C	S, S, FI	M, M, Dp-W	2.6				
	Current Years					4 ft	2013	0	17	0	0	0	17	Pasture													D	S, S, FI, FI	M, M, M, Dp-W	1.8				
	Previous Irrigation System					5 ft	2012	0	17	0	0	0	17	Pasture													E							
	Type					6 ft	Comments	Only manure is from cows - .42 lbs of N per day per animal pair; 40 pair year around																			Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented							
	Previous Years					TOTAL																								Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet				
						NH4-N																												
			ORGANIC PERCENT																															

Deep Soil Sampling - Fall 2015

ID	Acres		Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil							
	10/25/2015	10/27/2015											Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal				
3125	35		NO	N/A		Sprinklers	Routine Schedule	24	16				15	20	0.9	Split application of N to the field							177 - Warden Silt Loam 2-5% Slopes											
	1 ft	8											2016	0	0	0	0	0	0	0	0	Alfalfa	10	Tons					Fair	A	S, S, S	M, M, M	1.6	3
	2 ft	4											2015	0	0	210	0	0	0	210	Alfalfa	10	Tons						B	S, L, S	M, M, M	3.1	3.1	
	3 ft	3											2014	0	0	210	0	0	0	210	Alfalfa	9	Tons						C	S, S, FI, S	M, M, M, M	2	2	
	4 ft												2013	0	0	210	0	0	0	210	Alfalfa	10	Tons						D	S, S, FI, S	M, M, M, M	1.6	2	
	5 ft												2012	0	0	0	0	0	0	0								E						
	6 ft																																	
	TOTAL	15																																
	NH4-N	20																																
	ORGANIC PERCENT	0.9																																
3126	16		YES	Twice per year		Sprinklers	Routine Schedule	Check soil	1				842	30	1.91	Split application of commercial N							18 - Cleman Very Fine Sandy Loam 0-2% Slopes											
	1 ft	246											2016	40	0	0	0	0	0	40	Triticale	10	Tons						A	S, S, S, S	M, M, Dp, W	2.7		
	2 ft	104											2015	160	0	80	0	0	0	240	Triticale	10	Tons	Corn	37	Tons	Good	Planned	B	S, S, S, S	M, M, Dp, W	2.5		
	3 ft	92											2014	40	0	0	0	0	0	40	Alfalfa	9	Tons						C	S, S, S, S	M, M, Dp, W	1.7		
	4 ft	126											2013	40	0	0	0	0	0	40	Alfalfa	10	Tons						D	S, S, S, S	M, M, Dp, W	2		
	5 ft	134											2012	0	0	0	0	0	0	0								E						
	6 ft	140																																
	TOTAL	842																																
	NH4-N	30																																
	ORGANIC PERCENT	1.91																																
3127			Blank	N/A		Sprinklers	Routine Schedule	24					56	13	2.27	Liquid manure applied thru wheel lines to field in Spring							173 - Warden Fine Sandy Loam 2-5% Slopes											
	1 ft	34											2016	0	0	0	0	0	0	0	Alfalfa		Tons						A	S	M	1.8	2	
	2 ft	22											2015	40	0	0	0	0	0	40	Alfalfa	9	Tons				Good	B	S	M	1.3	2		
	3 ft												2014	40	0	0	0	0	0	40	Alfalfa	10	Tons						C	S	M	1.6	2	
	4 ft												2013	40	0	0	0	0	0	40	Alfalfa	8	Tons						D	S	M	1	1	
	5 ft												2012	0	0	0	0	0	0	0								E						
	6 ft																																	
	TOTAL	56																																
	NH4-N	13																																
	ORGANIC PERCENT	2.27																																

Deep Soil Sampling - Fall 2015

ID	Acres		Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil												
	10/28/2015												Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015		Hole	Consistance	Moisture	Roots	Refusal								
	1 ft	2 ft																							Good	Actual													
3128	30		YES	Once a Year	Rill Irrigation	Rill Irrigation	Routine Schedule	24					257	11	2016	0	0	0	0	0	0	0	0	0	Corn Silage	35 Tons					2015	Good	Actual	A	S, S, S	M, M, Dp	0.6	5	
													11	22	2015	0	0	100	0	0	0	0	0	0	Corn Silage	35 Tons							B	S, S, S	M, M, Dp	0.9	4		
													22	10	2014	0	0	0	0	0	0	0	0	0	Corn Silage	Tons							C	S, S, S, S, S	M, M, Dp, M, Dp	1.3			
													10	95	2013	0	0	0	0	0	0	0	0	0	Corn Silage	Tons							D	S, S, S	M, M, Dp	1.4	5.2		
													95	395	2012	0	0	0	0	0	0	0	0	0									E						
													395	12	Comments													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented											
													12	1.61	Records were not available for yield of year 14 and 13 also fertilizer recs were not available for year 14 or 13													Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet											
													ORGANIC PERCENT																										
3129	30		YES	Once a Year	Rill Irrigation	Rill Irrigation	check soil		30				28	8	2016	0	0	0	0	0	0	0	0																
													8	17	2015	0	0	300	0	0	0	0	0	0	Mint	190 Lbs.									B	S, S, S	M, M, M	2	
													17	6	2014	0	0	300	0	0	0	0	0	0	Mint	165 Lbs.									C	S, S, S, S, S	M, M, M, M, Dp	1.4	
													6	7	2013	0	0	300	0	0	0	0	0	0	Mint	165 Lbs.									D	S, S, S, S, S	M, M, M, M, Dp	1.1	
													7	3	2012	0	0	0	0	0	0	0	0	0	Mint	165 Lbs.									E				
													3	69	Comments													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented											
													69	22	150 in Spring another 150 after cutting													Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet											
													22	2.49																									
													ORGANIC PERCENT																										
3130	16		NO	N/A	Sprinklers	Sprinklers	Routine Schedule	24	3				18	7	2016	0	0	0	0	0	0	0	0	Alfalfa	10 Tons														
													18	6	2015	0	0	0	0	0	0	0	0	0	Alfalfa	10 Tons									B	S	M	1.4	4
													7	3	2014	0	0	0	0	0	0	0	0	0	Alfalfa	11 Tons									C	S	M	4	4
													6	34	2013	0	0	0	0	0	0	0	0	0	Alfalfa	10 Tons									D	S	M	3.3	4
													34	10	2012	0	0	0	0	0	0	0	0	0											E				
													10	1.91	Comments													Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented											
													1.91		This farm applied 20 tons of manure per acre in Fall of 2011 before alfalfa was planted. It was on est. 200 lbs of N applied per acre. When not in alfalfa it is a rill irrigated corn field.													Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet											
													ORGANIC PERCENT																										

Deep Soil Sampling - Fall 2015

3131	Acres	35	NO3 (#N/ACRE) 10/28/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil	138 - Sinloc Fine Sandy Loam 0-2% Slopes						
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
	Test Frequency	Once per Year		1 ft	2016	0	0	0	0	0	0	Corn Silage	30	Tons			Good	Actual	A	S, S, S, S	M, M, Dp, Dp	1.5	
	Current Irrigation System			2 ft	2015	0	250	100	0	0	350	Corn Silage	30	Tons					B	S, S, S, S, S	M, M, Dp, Dp, Dp	1.2	
	Type	Rill Irrigation		3 ft	2014	0	60	100	0	0	160	Corn Silage	30	Tons					C	S, S, S, S, S, S	M, M, Dp, Dp, M, Dp	2.1	
	Schedule	Routine Schedule		4 ft	2013	0	0	100	0	0	100	Corn Silage	30	Tons					D	S, S, S, S	M, M, Dp, Dp	2.8	
	Hour Sets			5 ft	2012	0	0	0	0	0	0								E				
	Current Years	100		TOTAL	Comments																		
	Previous Irrigation System			NH4-N	All nutrients applied in Spring																		
	Type			ORGANIC PERCENT	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
Previous Years			Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				
3132	Acres	20	NO3 (#N/ACRE) 10/28/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil	58 - Hezel Loamy Fine Sand 2-15% Slopes						
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
	Test Frequency	Once a Year		1 ft	2016	0	0	0	0	0	0					Fair	Actual	A	S, S	D, M	3.1	4	
	Current Irrigation System			2 ft	2015	0	100	100	0	0	200	Corn Silage	28	Tons					B	S, S, S	D, M, M	2.8	
	Type	Rill Irrigation		3 ft	2014	0	100	100	0	0	200	Corn Silage	30	Tons					C	S, S, S	D, M, M	3.1	
	Schedule	Check soil		4 ft	2013	0	100	100	0	0	200	Corn Silage	25	Tons					D	S, S, S	D, M, M	3.2	
	Hour Sets			5 ft	2012	0	100	100	0	0	200	Corn Silage	27	Tons					E				
	Current Years	100		6 ft	Comments																		
	Previous Irrigation System			TOTAL	All nutrients applied in spring																		
	Type	Unknown		NH4-N	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
Previous Years		ORGANIC PERCENT	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				
3133	Acres	30	NO3 (#N/ACRE) 10/28/2015	Fertilizer Applications (#N/Acre)							Cropping History					Soil	58 - Hezel Loamy Fine Sand 2-15% Slopes						
	Soil Testing?	YES		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2015	Hole	Consistance	Moisture	Roots	Refusal		
	Test Frequency	Once a Year		1 ft	2016	0	0	0	0	0	0					Fair	Actual	A	S, S, S, S	M, M, M, M	2.6		
	Current Irrigation System			2 ft	2015	0	100	100	0	0	200	Corn Silage	24	Tons					B	S, S, S	M, M, M	1.8	
	Type	Rill Irrigation		3 ft	2014	0	100	100	0	0	200	Corn Silage	27	Tons					C	S, S, S	M, M, M	2.9	
	Schedule	Check soil		4 ft	2013	0	100	100	0	0	200	Corn Silage	32	Tons					D	S, S, S, S, S	M, M, M, M, Dp	1.6	
	Hour Sets			5 ft	2012	0	100	100	0	0	200	Corn Silage	27	Tons					E				
	Current Years	100		6 ft	Comments																		
	Previous Irrigation System			TOTAL	All nutrients applied in spring																		
	Type	Unknown		NH4-N	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																		
Previous Years		ORGANIC PERCENT	Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																				

Deep Soil Sampling - Fall 2015

ID	Acres	Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil								
												10/29/2015	Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal			
3134	30	YES	Once per Year	Sprinklers	Shovel			3	Rill Irrigation			10/29/2015	2016	0	0	0	0	0	0	0	Mint	200	Lbs.			2016	Good	Planned	A	S	M	2.3	4	
	1 ft	10	2015					0				0	80	0	0	0	80	Mint		Lbs.			B	S	M				2.5	4				
	2 ft	14	2014					0				0	180	0	0	0	180	Corn	35	Tons			C	S	M	2	4							
	3 ft	76	2013					0				0	180	0	0	0	180	Corn	7.5	Tons			D	S	M	2.1								
	4 ft	74	2012					0				0	0	0	0	0	0					E												
	5 ft	46	Comments																															
	6 ft	48																																
	TOTAL	268																																
	NH4-N	11																																
	ORGANIC PERCENT	1.42																																
3135	28	YES	Once per Year	Sprinklers	Observe Crop			3	Rill Irrigation			10/29/2015	2016	0	0	0	0	0	0	0	Corn Grain	28	Tons			2015	Good	Actual	A	S	M	1.2	4	
	1 ft	225	2015					0				50	200	0	0	0	250	Corn Grain	28	Tons			B	S	M				1.5	4				
	2 ft	233	2014					0				0	250	0	0	0	250	Corn Grain	7	Tons			C	S	M	1.1	3.2							
	3 ft	219	2013					0				0	200	0	0	0	200	Corn Grain	7	Tons			D	S	M	1.3	4							
	4 ft	125	2012					0				0	0	0	0	0	0					E												
	5 ft		Comments					Previously commercial N was broadcast on by now it is applied thru the growing season thru the pivot																										
	6 ft																																	
	TOTAL	802																																
	NH4-N	20																																
	ORGANIC PERCENT	2.14																																
3136	15	Blank	N/A	Rill Irrigation	Blank			50	Rill Irrigation			10/29/2015	2016	0	0	0	0	0	0	Mint		Lbs.			2016			A	S	M	2.4			
	1 ft	50	2015					0				0	300	0	0	0	300	Mint	185	Lbs.			B	S				M						
	2 ft	6	2014					0				0	300	0	0	0	300	Mint	195	Lbs.			C	S	M	2								
	3 ft	4	2013					0				0	300	0	0	0	300	Mint	180	Lbs.			D	S	M									
	4 ft	3	2012					0				0	0	0	0	0	0					E												
	5 ft	10	Comments					150 in spring, fly on 50lbs June 1st, July 10 add																										
	6 ft	8																																
	TOTAL	81																																
	NH4-N	20																																
	ORGANIC PERCENT	1.85																																

Deep Soil Sampling - Fall 2015

ID	Acres		NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History					Soil										
	Testing?	Frequency	10/29/2015		Year	Liquid	Solid	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal				
			1 ft	2 ft		Manure	Manure											Good	Planned								
3137	5	NO	56	3																							
	N/A	N/A	7	3	2016	0	0	0	0	0	0	0	Mint	188 Lbs.													
	Current Irrigation System		4	3	2015	0	0	300	0	0	0	300	Mint	188 lbs of oil					Good	Planned	A	S	M	2.4			
	Rill Irrigation		5	7	2014	0	0	300	0	0	0	300	Mint	188 Lbs.							B	S	M	2.4			
	Routine Schedule		6	3	2013	0	0	300	0	0	0	300	Mint	188 Lbs.							C	S	M	2.1			
			TOTAL	79		2012	0	0	0	0	0	0										D	S	M	1.9		
			NH4-N	71																		E					
	50		ORGANIC PERCENT	1.75	Comments																						
	Previous Irrigation System		Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																								
			Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								
3138	30	NO	15	3																							
	N/A	N/A	7	4	2016	0	0	0	0	0	0	0	Grapes	15 Tons													
	Current Irrigation System		5	43	2015	0	0	75	0	0	0	75	Grapes	11.3 Tons							Good	Planned	A	S	M	2	4
	Rill Irrigation		6	4	2014	0	0	75	0	0	0	75	Grapes	18 Tons							B	S	M	2.2	4		
	Routine Schedule		TOTAL	76	2013	0	0	75	0	0	0	75	Grapes	12.5 Tons							C	S	M	1.8			
			NH4-N	12	2012	0	0	0	0	0	0	0										D	S	M	2.6	4	
	100		ORGANIC PERCENT	0.84	Comments Field has been in grapes since 1949																						
	Previous Irrigation System		Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																								
			Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								
	3139	60	NO	5	6																						
N/A		N/A	30	32	2016	0	0	0	0	0	0	0	Grapes	15 Tons													
Current Irrigation System			4	32	2015	0	0	75	0	0	0	75	Grapes	11.3 Tons							Good	Planned	A	S	M	2.6	4
Sprinklers			5		2014	0	0	75	0	0	0	75	Grapes	18 Tons							B	S	M	1.8	4		
Routine Schedule			6		2013	0	0	75	0	0	0	75	Grapes	12.5 Tons							C	S	M	1.7	4		
			TOTAL	73	2012	0	0	0	0	0	0	0										D	S	M	3.2	4	
24			NH4-N	10	Comments																						
10			ORGANIC PERCENT	1.13	Consistance Options: L=loose, S=Soft, SH=Slightly Hard, HA=Hard, EH=Extremely Hard, FR=Friable, FI=Firm, VFI=Very Firm, C=Cemented																						
Previous Irrigation System			Moisture Options: D=Dry, M=Moist, Dp=Damp, W=Wet																								

Deep Soil Sampling - Fall 2015

ID	Acres	Soil Testing?	Test Frequency	Current Irrigation System	Type	Schedule	Hour Sets	Current Years	Previous Irrigation System	Type	Previous Years	NO3 (#N/ACRE)		Fertilizer Applications (#N/Acre)							Cropping History				Soil													
												10/29/2015		Year	Liquid Manure	Solid Manure	Com.	Bio	Comp	Other	Total	Crop 1	Crop 1 Yield	Crop 2	Crop 2 Yield	2016		Hole	Consistance	Moisture	Roots	Refusal						
												1 ft	2 ft													Crop Condition	Planned											
3140	20	YES	Once per Year	Drip	Drip	once system is on rotate thru year		15	Rill Irrigation			493	10/29/2015	2016	0	0	0	0	0	0	0	0	Hops	1.5	Tons				Good	Planned	177 - Warden Silt Loam 2-5% Slopes	A	S	M	2.4			
	1 ft	300	2015										0	0	200	0	0	0	200	Hops	1	Tons				B	S	M				2.5						
	2 ft	4	2014										0	0	200	0	0	0	200	Hops	1	Tons				C	S	M				2.7						
	3 ft	40	2013										0	0	200	0	0	0	200	Hops	1	Tons				D	S	M				2						
	4 ft	17	2012										0	0	0	0	0	0	0							E												
	5 ft	127	Comments																																			
	6 ft	5	ORGANIC PERCENT																																			
	TOTAL	493																																				
	NH4-N	22																																				
3141	20	YES	Once per Year	Drip	Drip	once system is on rotate thru year		15	Rill Irrigation			950	2016	0	0	0	0	0	0	0	0	Hops	1.5	Tons				Good	Planned	32 - Esquatzel Silt Loam 0-2%Slopes	A	S	M	2				
	1 ft	59	2015									0	0	200	0	0	0	200	Hops	1	Tons				B	S	M				2.8							
	2 ft	596	2014									0	0	200	0	0	0	200	Hops	1	Tons				C	S	M				2.1	5						
	3 ft	57	2013									0	0	200	0	0	0	200	Hops	1	Tons				D	S	M				2.2	4						
	4 ft	1344	2012									0	0	0	0	0	0	0							E													
	5 ft	1204	Comments																																			
	6 ft	4210	ORGANIC PERCENT																																			
	TOTAL	4210																																				
	NH4-N	22																																				
3142	20	YES	Once per Year	Drip	Drip	once system is on rotate thru year		15	Rill Irrigation			820	2016	0	0	0	0	0	0	0	0						Good	Planned	32 - Esquatzel Silt Loam 0-2%Slopes	A	S	M	3.1	4				
	1 ft	44	2015									0	0	200	0	0	0	200	Hops	1.5	Tons				B	S				M	2.9	4						
	2 ft	149	2014									0	0	200	0	0	0	200	Hops	1.5	Tons				C	S				M	3.1	4						
	3 ft	56	2013									0	0	200	0	0	0	200	Hops	1.5	Tons				D	S				M	2.8	4						
	4 ft		2012									0	0	0	0	0	0	0							E													
	5 ft		Comments																																			
	6 ft		ORGANIC PERCENT																																			
	TOTAL	1069																																				
	NH4-N	12																																				