



**SGS ALVEY**  
 Laboratory, Inc.  
 1511 E. Main St.  
 P.O. Box 175  
 Belleville, IL 62221  
 (618) 233-0445  
 Fax (618) 233-7292



# LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Maschhoff  
 Samples Submitted by: Maschhoff  
 Maschhoff Inc\_Carlyle  
 7475 State Hwy 127  
 Carlyle, IL 62231

Order No: 23972  
 Client ID: 882  
 Report Date: 03/03/2009  
 Farm Name: Archery Bald Eagle  
 Field Name: HDWK  
 Field Acres: 131.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
Sample															Sub	Surf								
1	6.3	6.9	104	560	1574	184	3.3													62.4	12.2	11.4	14.0	6.3
2	6.6	7.2	139	292	970	117	3.4													67.9	13.7	10.5	8.0	3.6
3	6.3	6.9	140	349	1123	141	3.2													62.8	13.2	10.0	14.0	4.5
4	6.9	7.5	49	429	1109	142	3.1													69.4	14.8	13.8	2.0	4.0
5	6.6	7.2	185	413	1353	171	3.3													67.3	14.2	10.5	8.0	5.0
6	6.7	7.3	141	420	1112	136	3.2													67.3	13.7	13.0	6.0	4.1
7	6.8	7.4	148	289	987	114	3.2													71.5	13.8	10.7	4.0	3.5
8	6.8	7.4	170	508	1534	170	3.0													70.9	13.1	12.0	4.0	5.4
9	6.6	7.2	156	730	1995	200	3.4													67.9	11.4	12.7	8.0	7.3
10	6.8	7.4	110	460	1532	165	2.9													72.0	13.0	11.1	4.0	5.3
11	6.5	7.1	75	549	1364	166	2.8													63.9	12.9	13.2	10.0	5.3
12	6.9	7.5	131	562	1265	176	3.0													67.1	15.6	15.3	2.0	4.7
13	6.7	7.3	129	656	1875	252	3.3													67.0	15.0	12.0	6.0	7.0
14	7.2	7.5	147	674	2268	257	3.4													74.6	14.1	11.4	0.0	7.6
15	6.9	7.5	131	553	1901	233	3.5													72.4	14.8	10.8	2.0	6.6
16	6.8	7.3	174	655	1867	220	3.6													69.8	13.7	12.6	4.0	6.7
17	6.7	7.2	226	639	2005	224	3.7													69.6	13.0	11.4	6.0	7.2
18	7.0	7.5	127	333	1179	161	3.1													72.8	16.6	10.6	0.0	4.0
19	6.5	7.1	119	264	975	129	3.3													66.2	14.6	9.2	10.0	3.7
20	6.8	7.4	239	508	1754	219	3.5													70.8	14.7	10.5	4.0	6.2
21	6.8	7.3	268	488	2099	252	3.8													72.8	14.5	8.7	4.0	7.2
22	6.9	7.5	167	391	1140	150	3.0													70.2	15.4	12.3	2.0	4.1
23	6.6	7.2	159	600	1557	190	3.1													65.7	13.4	13.0	8.0	5.9
24	6.9	7.5	94	436	1392	180	2.9													71.2	15.3	11.4	2.0	4.9
25	7.0	7.5	179	877	2209	268	3.0													71.1	14.4	14.5	0.0	7.8
26	6.9	7.5	149	771	2291	257	3.4													72.1	13.5	12.4	2.0	7.9
27	7.0	7.5	249	652	2413	260	3.9													75.8	13.6	10.5	0.0	8.0
28	6.8	7.3	206	550	1819	231	3.7													70.2	14.9	10.9	4.0	6.5
29	6.8	7.3	162	456	1699	197	3.8													72.1	14.0	9.9	4.0	5.9
30	7.0	7.5	189	378	1457	164	3.6													75.7	14.2	10.1	0.0	4.8
31	6.6	7.2	231	329	1176	149	3.5													67.9	14.3	9.7	8.0	4.3
32	7.0	7.5	198	209	1170	155	3.7													76.2	16.8	7.0	0.0	3.8
33	6.6	7.1	401	419	1934	215	4.5													71.0	13.1	7.9	8.0	6.8
34	6.7	7.2	164	208	906	115	3.8													70.8	14.9	8.3	6.0	3.2
35	7.1	7.5	136	212	929	121	3.7													74.9	16.3	8.8	0.0	3.1
36	6.9	7.4	163	286	1155	137	3.8													74.0	14.6	9.4	2.0	3.9

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: HDWK  
Field Acres: 131.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
37	7.2	7.5	123	183	909	112	3.5													76.4	15.7	7.9	0.0	3.0
38	7.2	7.5	147	263	1166	131	3.7													76.8	14.4	8.9	0.0	3.8
39	6.9	7.5	139	169	743	106	3.4													72.3	17.2	8.4	2.0	2.6
40	6.7	7.2	146	231	993	133	3.6													70.0	15.6	8.4	6.0	3.5
41	6.6	7.2	90	204	873	109	3.4													69.2	14.5	8.3	8.0	3.2
42	7.1	7.5	142	639	2328	268	4.5													75.0	14.4	10.6	0.0	7.8
43	6.6	7.1	118	217	853	109	3.7													68.5	14.5	8.9	8.0	3.1
44	6.7	7.2	172	260	860	115	3.6													68.2	15.2	10.6	6.0	3.1
45	7.0	7.5	137	224	962	130	3.6													74.3	16.8	8.9	0.0	3.2
46	7.1	7.5	139	193	947	129	3.5													75.1	17.0	7.9	0.0	3.2
47	7.6	7.5	105	178	913	134	3.2													74.4	18.2	7.4	0.0	3.1
48	7.6	7.5	152	223	1114	169	3.4													73.8	18.7	7.6	0.0	3.8
49	7.0	7.5	160	297	1208	153	3.3													74.8	15.8	9.4	0.0	4.0
50	6.8	7.4	89	248	987	121	3.5													72.0	14.7	9.3	4.0	3.4
51	6.8	7.3	134	256	979	120	3.6													71.7	14.6	9.6	4.0	3.4
52	6.8	7.4	119	656	1832	196	3.5													70.5	12.6	12.9	4.0	6.5
Field Median	6.8	7.4	146	402	1194	162	3.5													71.0	14.5	10.5	4.0	4.4

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Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: HDWK  
Field Acres: 131.9

Sample	Water pH	Buffer pH	Phos-phorus	Pounds Per Acre			Percent Organic Matter	Pounds Per Acre						Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
				Potassium	Calcium	Mag-nesium		Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High						
Water pH	6.8						Intended Crop  Yield Goal   Build-up  Crop Removal: IL	Corn Grain	Soybean			
Phosphorus	146							150 Bu/Ac	50 Bu/Ac			
Potassium	402							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	
Calcium	1194							0 - 0 - 0	0 - 0 - 0			
Magnesium	162											
Organic Matter	3.5											
							**TOTAL REQUIRED	180 - 56 - 42	0 - 42 - 65			
							Credits: High Fertility	0 - 56 - 21	0 - 42 - 33			
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 21	0 - 0 - 32			
Limestone Recommendations 0 Tons/Acre							Adjust Nitrogen Recommendations for Previous Crop or other N Sources.					
CONVERSIONS: PPM = lbs/Acre / 2 or lbs/Acre = PPM x 2												

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.



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Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: CSNT  
Field Acres: 35

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC	
															Sub									Surf
1	7.3	7.5	124	150	1028	138	3.6												77.0	17.3	5.7	0.0	3.3	
2	7.7	7.5	122	155	1223	145	3.6												79.2	15.7	5.1	0.0	3.9	
3	7.4	7.5	130	101	1204	141	3.7												80.7	15.8	3.5	0.0	3.7	
4	7.6	7.5	176	172	1661	170	3.8												81.7	14.0	4.3	0.0	5.1	
5	7.5	7.5	168	105	1151	150	3.4												79.1	17.2	3.7	0.0	3.6	
6	7.6	7.5	133	176	1210	179	3.3												75.7	18.7	5.6	0.0	4.0	
7	7.4	7.5	201	173	1236	150	3.5												78.4	15.9	5.6	0.0	3.9	
8	7.5	7.5	115	107	1052	141	3.4												78.4	17.5	4.1	0.0	3.4	
9	7.2	7.5	112	142	1180	137	3.3												79.7	15.4	4.9	0.0	3.7	
10	7.5	7.5	164	113	1347	149	3.6												81.5	15.0	3.5	0.0	4.1	
11	7.2	7.5	162	135	1279	162	3.7												79.0	16.7	4.3	0.0	4.0	
12	7.0	7.5	203	147	1068	157	3.5												76.0	18.6	5.4	0.0	3.5	
Field Median	7.5	7.5	148	144	1206	150	3.6												79.1	16.3	4.6	0.0	3.8	

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High						
Water pH	7.5						Intended Crop	Corn Grain	Soybean			
Phosphorus	148							150 Bu/Ac	50 Bu/Ac			
Potassium	144						Yield Goal	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	
Calcium	1206						Build-up	0 - 0 - 115	0 - 0 - 115			
Magnesium	150						Crop Removal: IL	180 - 56 - 42	0 - 42 - 65			
Organic Matter	3.6											
							**TOTAL REQUIRED	180 - 56 - 157	0 - 42 - 180			
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0			
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 157	0 - 0 - 180			
Limestone Recommendations		0 Tons/Acre					Adjust Nitrogen Recommendations for Previous Crop or other N Sources.					
CONVERSIONS: PPM – Lbs/Acre / 2 or Lbs/Acre – PPM x 2												



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Special Report For: Maschhoff  
 Samples Submitted by: Maschhoff  
 Maschhoff Inc\_Carlyle  
 7475 State Hwy 127  
 Carlyle, IL 62231

Order No: 23972  
 Client ID: 882  
 Report Date: 03/03/2009  
 Farm Name: Archery Bald Eagle  
 Field Name: KLHR  
 Field Acres: 37.5

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	7.7	7.5	92	157	1692	184	3.2													81.4	14.8	3.9	0.0	5.2
2	7.4	7.5	61	96	1626	178	3.5													82.5	15.0	2.5	0.0	4.9
3	7.9	7.5	62	165	1497	175	3.0													79.9	15.6	4.5	0.0	4.7
4	7.7	7.5	99	439	3046	332	2.9													79.6	14.5	5.9	0.0	9.6
5	7.3	7.5	50	360	2564	312	3.4													78.4	15.9	5.7	0.0	8.2
6	7.7	7.5	29	226	2305	247	3.1													81.4	14.5	4.1	0.0	7.1
7	7.6	7.5	77	97	1340	155	3.3													81.3	15.7	3.0	0.0	4.1
8	7.9	7.5	95	105	1258	147	3.6													80.8	15.7	3.5	0.0	3.9
9	7.7	7.5	106	82	1555	169	3.8													82.8	15.0	2.2	0.0	4.7
10	7.9	7.5	38	85	1094	146	3.1													79.2	17.6	3.1	0.0	3.5
11	7.3	7.5	60	240	2195	264	3.0													79.6	15.9	4.5	0.0	6.9
12	7.7	7.5	88	153	2060	204	3.6													83.1	13.7	3.2	0.0	6.2
13	7.7	7.5	56	139	1815	201	3.7													81.7	15.0	3.2	0.0	5.6
14	7.1	7.5	111	539	3195	402	3.3													77.1	16.2	6.7	0.0	10.4
15	7.5	7.5	132	101	1098	152	3.5													78.3	18.0	3.7	0.0	3.5
16	7.5	7.5	69	74	1007	139	3.2													78.9	18.1	3.0	0.0	3.2
Field Median	7.7	7.5	72	146	1658	180	3.3													80.4	15.6	3.6	0.0	5.1

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Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: KLHR  
Field Acres: 37.5

Sample	Water pH	Buffer pH	Phos-phorus	Pounds Per Acre			Percent Organic Matter	Pounds Per Acre						Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
				Potassium	Calcium	Mag-nesium		Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC

	Field Median	Fertility Level					Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High	Intended Crop	Corn Grain	Soybean		
Water pH	7.7						Yield Goal	150 Bu/Ac	50 Bu/Ac		
Phosphorus	72							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Potassium	146						Build-up	0 - 0 - 114	0 - 0 - 114		
Calcium	1658						Crop Removal: IL	180 - 56 - 42	0 - 42 - 65		
Magnesium	180										
Organic Matter	3.3										
							**TOTAL REQUIRED	180 - 56 - 156	0 - 42 - 179		
							Credits: High Fertility	0 - 0 - 0	0 - 0 - 0		
							**ADJUSTED RECOMMENDATIONS	180 - 56 - 156	0 - 42 - 179		
							Adjust Nitrogen Recommendations for Previous Crop or other N Sources.				

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

High pH may reduce P availability. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years.



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 Maschhoff Inc\_Carlyle  
 7475 State Hwy 127  
 Carlyle, IL 62231

Order No: 23972  
 Client ID: 882  
 Report Date: 03/03/2009  
 Farm Name: Archery Bald Eagle  
 Field Name: WLTN  
 Field Acres: 68.8

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	7.4	7.5	137	298	1653	208	3.1												76.8	16.1	7.1	0.0	5.4	
2	7.6	7.5	94	220	1679	191	3.4												79.6	15.1	5.3	0.0	5.3	
3	7.6	7.5	110	151	1465	172	3.0												80.1	15.7	4.2	0.0	4.6	
4	7.2	7.5	139	123	1053	130	3.0												79.0	16.2	4.7	0.0	3.3	
5	7.2	7.5	109	179	1492	153	3.1												81.1	13.9	5.0	0.0	4.6	
6	7.8	7.5	119	137	1250	155	3.0												79.2	16.3	4.5	0.0	3.9	
7	7.4	7.5	169	129	1076	115	3.1												80.7	14.3	5.0	0.0	3.3	
8	7.0	7.5	282	345	2164	202	3.3												80.8	12.6	6.6	0.0	6.7	
9	7.0	7.5	110	163	1165	140	2.9												78.6	15.7	5.7	0.0	3.7	
10	7.2	7.5	173	262	1448	170	3.4												77.6	15.2	7.2	0.0	4.7	
11	6.7	7.3	133	116	819	105	3.1												73.0	15.7	5.3	6.0	2.8	
12	7.2	7.5	134	228	1447	169	3.3												78.4	15.3	6.3	0.0	4.6	
13	7.1	7.5	168	221	1491	175	3.4												78.7	15.4	6.0	0.0	4.7	
14	7.2	7.5	182	231	1392	178	3.1												77.0	16.4	6.6	0.0	4.5	
15	6.6	7.2	165	201	1104	133	3.2												71.1	14.2	6.6	8.0	3.9	
16	7.5	7.5	151	183	1472	175	3.3												79.3	15.7	5.0	0.0	4.6	
17	7.3	7.5	104	160	1508	171	3.2												80.4	15.2	4.4	0.0	4.7	
18	7.6	7.5	117	167	1193	141	3.0												78.9	15.5	5.7	0.0	3.8	
19	7.2	7.5	337	257	1660	163	3.4												80.4	13.2	6.4	0.0	5.2	
20	7.1	7.5	143	131	897	104	3.5												78.8	15.3	5.9	0.0	2.8	
21	7.3	7.5	186	111	1294	150	3.6												80.8	15.6	3.6	0.0	4.0	
22	7.1	7.5	180	211	1658	174	3.5												80.6	14.1	5.3	0.0	5.1	
23	7.6	7.5	132	267	1877	197	3.0												80.1	14.0	5.9	0.0	5.9	
24	7.7	7.5	113	308	1773	168	3.1												80.2	12.7	7.1	0.0	5.5	
25	7.3	7.5	570	191	1691	182	3.6												80.8	14.5	4.7	0.0	5.2	
26	7.6	7.5	121	121	1213	134	3.4												80.9	14.9	4.1	0.0	3.7	
27	7.8	7.5	138	135	1315	126	3.3												82.5	13.2	4.3	0.0	4.0	
Field Median	7.3	7.5	138	182	1448	168	3.2												79.6	15.2	5.3	0.0	4.6	

**SGS ALVEY**

Laboratory, Inc.  
1511 E. Main St.  
P.O. Box 175  
Belleville, IL 62221  
(618) 233-0445  
Fax (618) 233-7292

**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: WLTN  
Field Acres: 68.8

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High						
Water pH	7.3						Intended Crop  Yield Goal   Build-up  Crop Removal: IL	Corn Grain	Soybean			
Phosphorus	138							150 Bu/Ac	50 Bu/Ac			
Potassium	182							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	
Calcium	1448							0 - 0 - 77	0 - 0 - 77			
Magnesium	168							180 - 56 - 42	0 - 42 - 65			
Organic Matter	3.2											
								**TOTAL REQUIRED	180 - 56 - 119	0 - 42 - 142		
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0			
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 119	0 - 0 - 142			
Limestone Recommendations		0 Tons/Acre					Adjust Nitrogen Recommendations for Previous Crop or other N Sources.					
CONVERSIONS: PPM = lbs/Acre / 2 or lbs/Acre = PPM x 2												

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

High pH may reduce P availability. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

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1511 E. Main St.  
P.O. Box 175  
Belleville, IL 62221  
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Fax (618) 233-7292

**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: FDLT  
Field Acres: 37.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	6.6	7.2	281	120	1079	136	3.5													72.6	15.2	4.1	8.0	3.7
2	6.8	7.4	213	289	1712	175	3.2													76.4	13.0	6.6	4.0	5.6
3	7.5	7.5	91	196	1648	158	3.1													81.9	13.1	5.0	0.0	5.0
4	7.3	7.5	66	136	1264	135	3.3													81.1	14.4	4.5	0.0	3.9
5	7.0	7.5	300	337	1723	174	3.5													78.8	13.3	7.9	0.0	5.5
6	6.8	7.4	252	275	1548	175	3.2													75.0	14.1	6.8	4.0	5.2
7	6.6	7.1	412	245	1586	167	3.7													73.3	12.9	5.8	8.0	5.4
8	7.3	7.5	238	132	1076	122	3.6													79.9	15.1	5.0	0.0	3.4
9	7.0	7.5	204	165	1032	124	3.4													77.9	15.7	6.4	0.0	3.3
10	7.3	7.5	185	132	1089	116	3.4													80.6	14.4	5.0	0.0	3.4
11	7.0	7.5	556	523	2534	267	3.7													78.0	13.7	8.3	0.0	8.1
12	7.5	7.5	261	218	1772	184	3.4													80.9	14.0	5.1	0.0	5.5
13	7.0	7.5	201	139	1219	137	3.6													80.3	15.0	4.7	0.0	3.8
14	7.3	7.5	155	168	1057	129	3.5													77.8	15.9	6.4	0.0	3.4
15	7.2	7.5	176	125	1208	149	3.4													79.4	16.4	4.2	0.0	3.8
16	6.9	7.5	177	182	1474	142	3.5													80.1	12.9	5.1	2.0	4.6
Field Median	7.0	7.5	208	176	1370	146	3.5													79.1	14.3	5.1	0.0	4.2

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P.O. Box 175  
Belleville, IL 62221  
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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: FDLT  
Field Acres: 37.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								

	Field Median	Fertility Level					Fertilizer Recommendations are in Pounds per Acre									
		V Low	Low	Medium	High	V High	Intended Crop	Corn Grain	Soybean							
Water pH	7.0						Yield Goal	150 Bu/Ac	50 Bu/Ac							
Phosphorus	208							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$					
Potassium	176						Build-up	0 - 0 - 85	0 - 0 - 85							
Calcium	1370						Crop Removal: IL	180 - 56 - 42	0 - 42 - 65							
Magnesium	146															
Organic Matter	3.5															
							**TOTAL REQUIRED	180 - 56 - 127	0 - 42 - 150							
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0							
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 127	0 - 0 - 150							
							Adjust Nitrogen Recommendations for Previous Crop or other N Sources.									

Limestone Recommendations 0 Tons/Acre

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

Very High P may result in Zinc deficiency symptoms. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.



**Carlyle, IL 62231**  
**594-2125**

Customer: Archery Bald Eagle  
Field: KLHR\_09 (#22804)

Acres: 37.5

County: Cass  
Township: Beardstown

Section: 36

**1 inch = 293 feet**

### Legend

## Roads

## Waterway

Pasture

\_\_\_\_\_

\_\_\_\_\_

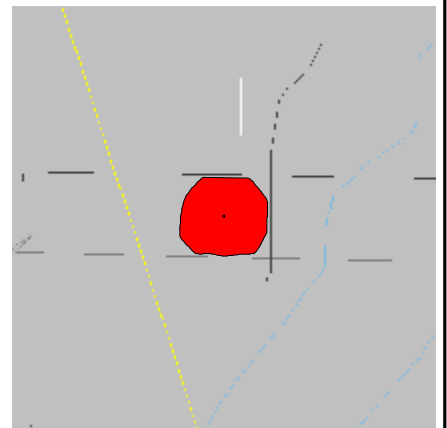
Page 10

**Longitude:** 90.4102

**Grid Size:** 330nsX330ew

Archery Bald Eagle\_Archery Bald Eagle Farm

KLHR\_37.5 acres





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 Belleville, IL 62221  
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 Fax (618) 233-7292



# LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Maschhoff  
 Samples Submitted by: Maschhoff  
 Maschhoff Inc\_Carlyle  
 7475 State Hwy 127  
 Carlyle, IL 62231

Order No: 23972  
 Client ID: 882  
 Report Date: 03/03/2009  
 Farm Name: Archery Bald Eagle  
 Field Name: HDWK  
 Field Acres: 131.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
Sample															Sub	Surf								
1	6.3	6.9	104	560	1574	184	3.3													62.4	12.2	11.4	14.0	6.3
2	6.6	7.2	139	292	970	117	3.4													67.9	13.7	10.5	8.0	3.6
3	6.3	6.9	140	349	1123	141	3.2													62.8	13.2	10.0	14.0	4.5
4	6.9	7.5	49	429	1109	142	3.1													69.4	14.8	13.8	2.0	4.0
5	6.6	7.2	185	413	1353	171	3.3													67.3	14.2	10.5	8.0	5.0
6	6.7	7.3	141	420	1112	136	3.2													67.3	13.7	13.0	6.0	4.1
7	6.8	7.4	148	289	987	114	3.2													71.5	13.8	10.7	4.0	3.5
8	6.8	7.4	170	508	1534	170	3.0													70.9	13.1	12.0	4.0	5.4
9	6.6	7.2	156	730	1995	200	3.4													67.9	11.4	12.7	8.0	7.3
10	6.8	7.4	110	460	1532	165	2.9													72.0	13.0	11.1	4.0	5.3
11	6.5	7.1	75	549	1364	166	2.8													63.9	12.9	13.2	10.0	5.3
12	6.9	7.5	131	562	1265	176	3.0													67.1	15.6	15.3	2.0	4.7
13	6.7	7.3	129	656	1875	252	3.3													67.0	15.0	12.0	6.0	7.0
14	7.2	7.5	147	674	2268	257	3.4													74.6	14.1	11.4	0.0	7.6
15	6.9	7.5	131	553	1901	233	3.5													72.4	14.8	10.8	2.0	6.6
16	6.8	7.3	174	655	1867	220	3.6													69.8	13.7	12.6	4.0	6.7
17	6.7	7.2	226	639	2005	224	3.7													69.6	13.0	11.4	6.0	7.2
18	7.0	7.5	127	333	1179	161	3.1													72.8	16.6	10.6	0.0	4.0
19	6.5	7.1	119	264	975	129	3.3													66.2	14.6	9.2	10.0	3.7
20	6.8	7.4	239	508	1754	219	3.5													70.8	14.7	10.5	4.0	6.2
21	6.8	7.3	268	488	2099	252	3.8													72.8	14.5	8.7	4.0	7.2
22	6.9	7.5	167	391	1140	150	3.0													70.2	15.4	12.3	2.0	4.1
23	6.6	7.2	159	600	1557	190	3.1													65.7	13.4	13.0	8.0	5.9
24	6.9	7.5	94	436	1392	180	2.9													71.2	15.3	11.4	2.0	4.9
25	7.0	7.5	179	877	2209	268	3.0													71.1	14.4	14.5	0.0	7.8
26	6.9	7.5	149	771	2291	257	3.4													72.1	13.5	12.4	2.0	7.9
27	7.0	7.5	249	652	2413	260	3.9													75.8	13.6	10.5	0.0	8.0
28	6.8	7.3	206	550	1819	231	3.7													70.2	14.9	10.9	4.0	6.5
29	6.8	7.3	162	456	1699	197	3.8													72.1	14.0	9.9	4.0	5.9
30	7.0	7.5	189	378	1457	164	3.6													75.7	14.2	10.1	0.0	4.8
31	6.6	7.2	231	329	1176	149	3.5													67.9	14.3	9.7	8.0	4.3
32	7.0	7.5	198	209	1170	155	3.7													76.2	16.8	7.0	0.0	3.8
33	6.6	7.1	401	419	1934	215	4.5													71.0	13.1	7.9	8.0	6.8
34	6.7	7.2	164	208	906	115	3.8													70.8	14.9	8.3	6.0	3.2
35	7.1	7.5	136	212	929	121	3.7													74.9	16.3	8.8	0.0	3.1
36	6.9	7.4	163	286	1155	137	3.8													74.0	14.6	9.4	2.0	3.9



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 Laboratory, Inc.  
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 P.O. Box 175  
 Belleville, IL 62221  
 (618) 233-0445  
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# LABORATORY ANALYSIS AND RECOMMENDATION REPORT

Special Report For: Maschhoff  
 Samples Submitted by: Maschhoff  
 Maschhoff Inc\_Carlyle  
 7475 State Hwy 127  
 Carlyle, IL 62231

Order No: 23972  
 Client ID: 882  
 Report Date: 03/03/2009  
 Farm Name: Archery Bald Eagle  
 Field Name: HDWK  
 Field Acres: 131.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
37	7.2	7.5	123	183	909	112	3.5												76.4	15.7	7.9	0.0	3.0	
38	7.2	7.5	147	263	1166	131	3.7												76.8	14.4	8.9	0.0	3.8	
39	6.9	7.5	139	169	743	106	3.4												72.3	17.2	8.4	2.0	2.6	
40	6.7	7.2	146	231	993	133	3.6												70.0	15.6	8.4	6.0	3.5	
41	6.6	7.2	90	204	873	109	3.4												69.2	14.5	8.3	8.0	3.2	
42	7.1	7.5	142	639	2328	268	4.5												75.0	14.4	10.6	0.0	7.8	
43	6.6	7.1	118	217	853	109	3.7												68.5	14.5	8.9	8.0	3.1	
44	6.7	7.2	172	260	860	115	3.6												68.2	15.2	10.6	6.0	3.1	
45	7.0	7.5	137	224	962	130	3.6												74.3	16.8	8.9	0.0	3.2	
46	7.1	7.5	139	193	947	129	3.5												75.1	17.0	7.9	0.0	3.2	
47	7.6	7.5	105	178	913	134	3.2												74.4	18.2	7.4	0.0	3.1	
48	7.6	7.5	152	223	1114	169	3.4												73.8	18.7	7.6	0.0	3.8	
49	7.0	7.5	160	297	1208	153	3.3												74.8	15.8	9.4	0.0	4.0	
50	6.8	7.4	89	248	987	121	3.5												72.0	14.7	9.3	4.0	3.4	
51	6.8	7.3	134	256	979	120	3.6												71.7	14.6	9.6	4.0	3.4	
52	6.8	7.4	119	656	1832	196	3.5												70.5	12.6	12.9	4.0	6.5	
Field Median	6.8	7.4	146	402	1194	162	3.5												71.0	14.5	10.5	4.0	4.4	

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: HDWK  
Field Acres: 131.9

Sample	Water pH	Buffer pH	Phos-phorus	Pounds Per Acre			Percent Organic Matter	Pounds Per Acre						Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
				Potassium	Calcium	Mag-nesium		Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High		Intended Crop	Corn Grain	Soybean		
Water pH	6.8							Yield Goal	150 Bu/Ac	50 Bu/Ac		
Phosphorus	146								$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Potassium	402							Build-up	0 - 0 - 0	0 - 0 - 0		
Calcium	1194							Crop Removal: IL	180 - 56 - 42	0 - 42 - 65		
Magnesium	162											
Organic Matter	3.5											
								**TOTAL REQUIRED	180 - 56 - 42	0 - 42 - 65		
								Credits: High Fertility	0 - 56 - 21	0 - 42 - 33		
								**ADJUSTED RECOMMENDATIONS	180 - 0 - 21	0 - 0 - 32		
Adjust Nitrogen Recommendations for Previous Crop or other N Sources.												

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: CSNT  
Field Acres: 35

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC	
															Sub									Surf
1	7.3	7.5	124	150	1028	138	3.6												77.0	17.3	5.7	0.0	3.3	
2	7.7	7.5	122	155	1223	145	3.6												79.2	15.7	5.1	0.0	3.9	
3	7.4	7.5	130	101	1204	141	3.7												80.7	15.8	3.5	0.0	3.7	
4	7.6	7.5	176	172	1661	170	3.8												81.7	14.0	4.3	0.0	5.1	
5	7.5	7.5	168	105	1151	150	3.4												79.1	17.2	3.7	0.0	3.6	
6	7.6	7.5	133	176	1210	179	3.3												75.7	18.7	5.6	0.0	4.0	
7	7.4	7.5	201	173	1236	150	3.5												78.4	15.9	5.6	0.0	3.9	
8	7.5	7.5	115	107	1052	141	3.4												78.4	17.5	4.1	0.0	3.4	
9	7.2	7.5	112	142	1180	137	3.3												79.7	15.4	4.9	0.0	3.7	
10	7.5	7.5	164	113	1347	149	3.6												81.5	15.0	3.5	0.0	4.1	
11	7.2	7.5	162	135	1279	162	3.7												79.0	16.7	4.3	0.0	4.0	
12	7.0	7.5	203	147	1068	157	3.5												76.0	18.6	5.4	0.0	3.5	
Field Median	7.5	7.5	148	144	1206	150	3.6												79.1	16.3	4.6	0.0	3.8	

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High						
Water pH	7.5						Intended Crop	Corn Grain	Soybean			
Phosphorus	148							150 Bu/Ac	50 Bu/Ac			
Potassium	144						Yield Goal	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	
Calcium	1206											
Magnesium	150						Build-up	0 - 0 - 115	0 - 0 - 115			
Organic Matter	3.6											
							Crop Removal: IL	180 - 56 - 42	0 - 42 - 65			
							**TOTAL REQUIRED	180 - 56 - 157	0 - 42 - 180			
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0			
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 157	0 - 0 - 180			
Limestone Recommendations		0 Tons/Acre					Adjust Nitrogen Recommendations for Previous Crop or other N Sources.					
CONVERSIONS: PPM – Lbs/Acre / 2 or Lbs/Acre – PPM x 2												

**SGS ALVEY**

Laboratory, Inc.  
1511 E. Main St.  
P.O. Box 175  
Belleville, IL 62221  
(618) 233-0445  
Fax (618) 233-7292

**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: KLHR  
Field Acres: 37.5

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	7.7	7.5	92	157	1692	184	3.2												81.4	14.8	3.9	0.0	5.2	
2	7.4	7.5	61	96	1626	178	3.5												82.5	15.0	2.5	0.0	4.9	
3	7.9	7.5	62	165	1497	175	3.0												79.9	15.6	4.5	0.0	4.7	
4	7.7	7.5	99	439	3046	332	2.9												79.6	14.5	5.9	0.0	9.6	
5	7.3	7.5	50	360	2564	312	3.4												78.4	15.9	5.7	0.0	8.2	
6	7.7	7.5	29	226	2305	247	3.1												81.4	14.5	4.1	0.0	7.1	
7	7.6	7.5	77	97	1340	155	3.3												81.3	15.7	3.0	0.0	4.1	
8	7.9	7.5	95	105	1258	147	3.6												80.8	15.7	3.5	0.0	3.9	
9	7.7	7.5	106	82	1555	169	3.8												82.8	15.0	2.2	0.0	4.7	
10	7.9	7.5	38	85	1094	146	3.1												79.2	17.6	3.1	0.0	3.5	
11	7.3	7.5	60	240	2195	264	3.0												79.6	15.9	4.5	0.0	6.9	
12	7.7	7.5	88	153	2060	204	3.6												83.1	13.7	3.2	0.0	6.2	
13	7.7	7.5	56	139	1815	201	3.7												81.7	15.0	3.2	0.0	5.6	
14	7.1	7.5	111	539	3195	402	3.3												77.1	16.2	6.7	0.0	10.4	
15	7.5	7.5	132	101	1098	152	3.5												78.3	18.0	3.7	0.0	3.5	
16	7.5	7.5	69	74	1007	139	3.2												78.9	18.1	3.0	0.0	3.2	
Field Median	7.7	7.5	72	146	1658	180	3.3												80.4	15.6	3.6	0.0	5.1	

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: KLHR  
Field Acres: 37.5

Sample	Water pH	Buffer pH	Phos-phorus	Pounds Per Acre			Percent Organic Matter	Pounds Per Acre						Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
				Potassium	Calcium	Mag-nesium		Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N Sub Surf	Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC

	Field Median	Fertility Level					Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High	Intended Crop	Corn Grain	Soybean		
Water pH	7.7						Yield Goal	150 Bu/Ac	50 Bu/Ac		
Phosphorus	72							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$
Potassium	146						Build-up	0 - 0 - 114	0 - 0 - 114		
Calcium	1658						Crop Removal: IL	180 - 56 - 42	0 - 42 - 65		
Magnesium	180										
Organic Matter	3.3										
							**TOTAL REQUIRED	180 - 56 - 156	0 - 42 - 179		
							Credits: High Fertility	0 - 0 - 0	0 - 0 - 0		
							**ADJUSTED RECOMMENDATIONS	180 - 56 - 156	0 - 42 - 179		
							Adjust Nitrogen Recommendations for Previous Crop or other N Sources.				

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

High pH may reduce P availability. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years.

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Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: WLTN  
Field Acres: 68.8

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	7.4	7.5	137	298	1653	208	3.1													76.8	16.1	7.1	0.0	5.4
2	7.6	7.5	94	220	1679	191	3.4													79.6	15.1	5.3	0.0	5.3
3	7.6	7.5	110	151	1465	172	3.0													80.1	15.7	4.2	0.0	4.6
4	7.2	7.5	139	123	1053	130	3.0													79.0	16.2	4.7	0.0	3.3
5	7.2	7.5	109	179	1492	153	3.1													81.1	13.9	5.0	0.0	4.6
6	7.8	7.5	119	137	1250	155	3.0													79.2	16.3	4.5	0.0	3.9
7	7.4	7.5	169	129	1076	115	3.1													80.7	14.3	5.0	0.0	3.3
8	7.0	7.5	282	345	2164	202	3.3													80.8	12.6	6.6	0.0	6.7
9	7.0	7.5	110	163	1165	140	2.9													78.6	15.7	5.7	0.0	3.7
10	7.2	7.5	173	262	1448	170	3.4													77.6	15.2	7.2	0.0	4.7
11	6.7	7.3	133	116	819	105	3.1													73.0	15.7	5.3	6.0	2.8
12	7.2	7.5	134	228	1447	169	3.3													78.4	15.3	6.3	0.0	4.6
13	7.1	7.5	168	221	1491	175	3.4													78.7	15.4	6.0	0.0	4.7
14	7.2	7.5	182	231	1392	178	3.1													77.0	16.4	6.6	0.0	4.5
15	6.6	7.2	165	201	1104	133	3.2													71.1	14.2	6.6	8.0	3.9
16	7.5	7.5	151	183	1472	175	3.3													79.3	15.7	5.0	0.0	4.6
17	7.3	7.5	104	160	1508	171	3.2													80.4	15.2	4.4	0.0	4.7
18	7.6	7.5	117	167	1193	141	3.0													78.9	15.5	5.7	0.0	3.8
19	7.2	7.5	337	257	1660	163	3.4													80.4	13.2	6.4	0.0	5.2
20	7.1	7.5	143	131	897	104	3.5													78.8	15.3	5.9	0.0	2.8
21	7.3	7.5	186	111	1294	150	3.6													80.8	15.6	3.6	0.0	4.0
22	7.1	7.5	180	211	1658	174	3.5													80.6	14.1	5.3	0.0	5.1
23	7.6	7.5	132	267	1877	197	3.0													80.1	14.0	5.9	0.0	5.9
24	7.7	7.5	113	308	1773	168	3.1													80.2	12.7	7.1	0.0	5.5
25	7.3	7.5	570	191	1691	182	3.6													80.8	14.5	4.7	0.0	5.2
26	7.6	7.5	121	121	1213	134	3.4													80.9	14.9	4.1	0.0	3.7
27	7.8	7.5	138	135	1315	126	3.3													82.5	13.2	4.3	0.0	4.0
Field Median	7.3	7.5	138	182	1448	168	3.2													79.6	15.2	5.3	0.0	4.6

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: WLTN  
Field Acres: 68.8

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								

	Field Median	Fertility Level						Fertilizer Recommendations are in Pounds per Acre				
		V Low	Low	Medium	High	V High						
Water pH	7.3						Intended Crop  Yield Goal   Build-up  Crop Removal: IL	Corn Grain	Soybean			
Phosphorus	138							150 Bu/Ac	50 Bu/Ac			
Potassium	182							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	
Calcium	1448							0 - 0 - 77	0 - 0 - 77			
Magnesium	168							180 - 56 - 42	0 - 42 - 65			
Organic Matter	3.2											
								**TOTAL REQUIRED	180 - 56 - 119	0 - 42 - 142		
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0			
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 119	0 - 0 - 142			
Limestone Recommendations		0 Tons/Acre					Adjust Nitrogen Recommendations for Previous Crop or other N Sources.					
CONVERSIONS: PPM = lbs/Acre / 2 or lbs/Acre = PPM x 2												

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

High pH may reduce P availability. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

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**LABORATORY ANALYSIS AND RECOMMENDATION REPORT**

Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: FDLT  
Field Acres: 37.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								
1	6.6	7.2	281	120	1079	136	3.5													72.6	15.2	4.1	8.0	3.7
2	6.8	7.4	213	289	1712	175	3.2													76.4	13.0	6.6	4.0	5.6
3	7.5	7.5	91	196	1648	158	3.1													81.9	13.1	5.0	0.0	5.0
4	7.3	7.5	66	136	1264	135	3.3													81.1	14.4	4.5	0.0	3.9
5	7.0	7.5	300	337	1723	174	3.5													78.8	13.3	7.9	0.0	5.5
6	6.8	7.4	252	275	1548	175	3.2													75.0	14.1	6.8	4.0	5.2
7	6.6	7.1	412	245	1586	167	3.7													73.3	12.9	5.8	8.0	5.4
8	7.3	7.5	238	132	1076	122	3.6													79.9	15.1	5.0	0.0	3.4
9	7.0	7.5	204	165	1032	124	3.4													77.9	15.7	6.4	0.0	3.3
10	7.3	7.5	185	132	1089	116	3.4													80.6	14.4	5.0	0.0	3.4
11	7.0	7.5	556	523	2534	267	3.7													78.0	13.7	8.3	0.0	8.1
12	7.5	7.5	261	218	1772	184	3.4													80.9	14.0	5.1	0.0	5.5
13	7.0	7.5	201	139	1219	137	3.6													80.3	15.0	4.7	0.0	3.8
14	7.3	7.5	155	168	1057	129	3.5													77.8	15.9	6.4	0.0	3.4
15	7.2	7.5	176	125	1208	149	3.4													79.4	16.4	4.2	0.0	3.8
16	6.9	7.5	177	182	1474	142	3.5													80.1	12.9	5.1	2.0	4.6
Field Median	7.0	7.5	208	176	1370	146	3.5													79.1	14.3	5.1	0.0	4.2

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Special Report For: Maschhoff  
Samples Submitted by: Maschhoff  
Maschhoff Inc\_Carlyle  
7475 State Hwy 127  
Carlyle, IL 62231

Order No: 23972  
Client ID: 882  
Report Date: 03/03/2009  
Farm Name: Archery Bald Eagle  
Field Name: FDLT  
Field Acres: 37.9

			Pounds Per Acre				Percent	Pounds Per Acre							Lbs/Acre		Lbs/Ac			Percent Saturation				meq/100g
Sample	Water pH	Buffer pH	Phos-phorus	Potassium	Calcium	Mag-nesium	Organic Matter	Sulfur	Zinc	Manganese	Boron	Iron	Copper	Sodium	NO3-N		Bray P1	Bray P2	P Bi-Carb	Ca	Mg	K	H	CEC
															Sub	Surf								

	Field Median	Fertility Level					Fertilizer Recommendations are in Pounds per Acre									
		V Low	Low	Medium	High	V High	Intended Crop	Corn Grain	Soybean							
Water pH	7.0						Yield Goal	150 Bu/Ac	50 Bu/Ac							
Phosphorus	208							$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$	$N - P_2O_5 - K_2O$					
Potassium	176						Build-up	0 - 0 - 85	0 - 0 - 85							
Calcium	1370						Crop Removal: IL	180 - 56 - 42	0 - 42 - 65							
Magnesium	146															
Organic Matter	3.5															
							**TOTAL REQUIRED	180 - 56 - 127	0 - 42 - 150							
							Credits: High Fertility	0 - 56 - 0	0 - 42 - 0							
							**ADJUSTED RECOMMENDATIONS	180 - 0 - 127	0 - 0 - 150							
							Adjust Nitrogen Recommendations for Previous Crop or other N Sources.									

CONVERSIONS: PPM = Lbs/Acre / 2 or Lbs/Acre = PPM x 2

Previous Crop: None Specified

Previous Yield: 0

Optimum Ranges:

Water pH: 6.3 - 6.8

Phosphorus: 45.0 - 75.0

Potassium: 260.0 - 340.0

N recommendations are based on yield. To calculate the best economic N rate based on corn and N prices, go to this website: [extension.agron.iastate.edu/soilfertility/nrate.aspx](http://extension.agron.iastate.edu/soilfertility/nrate.aspx)

Very High P may result in Zinc deficiency symptoms. Suggest split applications of potassium due to low buffer capacity. Retest in 2 years. A minimum N fertilizer application of 30 lbs/acre may be appropriate for early growth. If P > 40 or K > 260, then only a starter fertilizer is recommended.

**594-2125**

**1 inch = 480 feet**



**Check tile outlets prior to manure applications, during, and after manure applications**  
To be completed with each job and submitted with Manure Application Log

8/17/2010

# Spill Response Plan

## LIVESTOCK MANAGEMENT FACILITIES AND WASTE HANDLING FACILITIES

### Manure Discharge

1. Stop all non-emergency activities to address the situation.
2. Check the scene to make sure it is safe.  
Assess the extent of the emergency.  
Determine how much help is needed.
3. Call for help as needed.
  - a. If manure has been spilled on the road, contact police for traffic control.
  - b. **Call The Maschoffs Environmental Services personnel at 618-830-8044 (Mike Kampwerth) or 618-444-5576 (Art Braundmeier).**
4. Contain the spill and prevent downstream movement to waters of the state. Depending on the situation, this may or may not be possible. Suggested responses to several problems are listed below:
  - a. *Lagoon or slurry basin overflow possible solutions:*
    - add soil to berm to increase elevation of dam
    - pump wastes to fields at an acceptable rate
    - stop all additional flow to the structure (waters, flushing system, etc.)
    - call a pumping contractor
    - make sure no surface water is entering storage structure

*\* Note: These activities should be started when your lagoon level has exceeded the temporary storage level.*
  - b. *Runoff from waste application field actions include:*
    - immediately stop waste application
    - create a temporary diversion or berm to contain the waste in the field
    - incorporate waste to reduce further runoff
    - evaluate and eliminate the reason(s) that caused the runoff
    - evaluate the application rates for the fields where runoff occurred
  - c. *Leakage from the waste distribution system:*
    - pipes and sprinklers – actions include:
      - ☐ stop recycle (flushing system) pump
      - ☐ stop irrigation pump

# Spill Response Plan

- ☐ close valves to eliminate further discharge
- ☐ separate pipes to create an air gap and stop flow
- ☐ repair all leaks prior to restarting pumps
- flush system, houses, solids separators – actions include:
  - ☐ stop recycle (flushing system) pump
  - ☐ stop irrigation pump
  - ☐ make sure no siphon effect has been created
  - ☐ separate pipes to create an air gap and stop flow
  - ☐ repair all leaks prior to restarting pumps
  - ☐ Park tractor on hose end or use hose jacks to stop flow.
- d. *Leakage from base or sidewall of lagoon or earthen storage structure.*  
Often these are seepage rather than flowing leaks- possible action:
  - dig a small well or ditch to catch all seepage, put in a submersible pump, and pump back into lagoon
  - if holes are caused by burrowing animals, trap or remove animals and fill holes and compact with a clay type soil
  - other holes may be likewise temporarily plugged with clay soil
- 5. Assess the extent of the spill and note any obvious damages.
  - a. Did the waste reach any surface waters?
  - b. Approximately how much was released and for what duration?
  - c. Any damage noted, such as employee injury, fish kills, or property damage?
  - d. Did the spill leave the property?
  - e. Does the spill have the potential to reach surface waters?
  - f. Could a future rain event cause the spill to reach surface waters?
  - g. Are potable water wells in danger (either on or off the property)?
- 6. Report the spill.
  - a. Contact Environmental Services with spill details.
  - b. Environmental Services will be responsible for all verbal and written regulatory reporting requirements for that state.
- 7. Implement procedures as advised by the appropriate agency.
- 8. Clean all livestock manure from the affected area.
  - a. Vacuum-pump the manure to an approved manure storage or land apply the manure according to the nutrient management plan.

# Spill Response Plan

- b. Flush residual materials from the area with pressurized fresh water.
- c. Capture and land apply rinse water.
- d. Excavate and land apply manure-saturated soil.
- e. Remove the temporary containment, and flush the affected area with large volumes of fresh water until clean.
- f. Repair the equipment that caused the discharge before further use.
- g. Restore the grade and vegetation of the affected area.
- h. Document all cleanup and repair activities with a written log and photographs.

## EGG PROCESSING FACILITIES

Not Applicable

## DISPOSAL AREAS FOR PRODUCTS, BY-PRODUCTS OR RAW MATERIALS

### Mortality Management

1. Rendering and Composting
  - a. Mortality exudates shall be contained and recovered by using an adsorbent material (ex: sawdust, lime, adsorbent clay) and land applied.
  - b. Any compost material spilled from the composter will be recovered and returned to the composter on a daily basis.

### Solid Waste Disposal

1. Maintain a dumpster at all sites and make sure there is a timely pick up service to properly dispose of the nonhazardous solid waste (NHSW).
2. Keep the dumpster area neat and make sure all NHSW goes in the dumpster.

# Spill Response Plan

## RAW MATERIAL STORAGE AREAS

### Feed Storage And Handling

1. Clean up daily spilled feed and dispose of in a trash dumpster for land filling or a compost pile if the feed does not contain any pharmaceutical ingredients (Contact Nutritional Services to verify.) Do not feed spilled feed to any other livestock species.
2. If there is a large feed spill due to feed delivery, there are a few options depending on the size of the spill.
  - a. If bio-security is approved by production management the feed truck driver may shovel spilled feed into bags and leave them on site for the farm personnel to dump in the feeders.
  - b. If the spill is large enough, the feed company may bring out or hire a grain vacuum to clean up the spill. Call the feed mill for instructions if a large feed truck spill was not cleaned up at the farm and take a photo if possible.
3. If medicated spilled feed cannot be salvaged for feed or is spoiled, dispose of in a dumpster to be land filled. (According to AFIA representative Keith Epperson)

### Chemicals

1. Spilled liquid products will be contained and recovered using an adsorbent material and disposed of as directed by the manufacturer.
2. Spilled solid products will be recovered and returned to the original container or disposed of as directed by the manufacturer.

### Fuel

1. The volume of liquid fuel stored on-site does not meet the requirement for secondary containment as specified by 40 CFR 112.
2. In the event of a fuel spill, identify the spill source, stop flow of spill, contain the spill using soil or absorbent material and recover any free liquid. Notify the Director of Environmental Services, Art Braundmeier at (618) 594-0346 or (618) 444-5576 in the event of a spill.

# Spill Response Plan

## Material Handling Equipment

1. Material handling equipment is kept free of potential contaminants. Any residual solids will be returned the point of origin.
2. When available, material handling equipment is kept in designated storage areas under roof to prevent contact with stormwater.

<b>Site Information</b> Farm Name: Archery - Bald Eagle  Address: 8969 Stock Lane Rd City, ST zip: Beardstown, IL 62618 Latitude: 39.9593 Longitude: -90.4071 Facility Phone: (217) 323 - 5411  Site Premise ID: _____  Animal Care Hotline: 1-877-574-4227 This toll-free number is a 24 hr reporting system for animal care concerns	<b>Directions</b>  From the intersection of Route 67 & Route 125 in Beardstown, IL, travel 0.5 mile East on Route 125 to County Rd 800E (Boulevard Rd), turn right (S) by the Cargill Plant and travel 2.75 miles to County Rd 600N (Stock Lane), turn right (W) and travel 0.7 miles to the sites. Archery is on the left (S) side of the road and Bald Eagle is on the right (N) side of the road.
--	--

## Ambulance

Name: Mecca Paramedics  
Phone: 911

## Fire

Name: Bluff Springs Fire Dept  
Phone: 911

## Police

Name: Cass Co Sheriff  
Phone: 911

## Contact Information

Site Owner: New Dominion Farms, Inc. Home Phone: (660) 726 - 3065 Mobile Phone: (312) 543 - 6920 Address: P.O. Box 266 Albany, MO, 64402	Site Manager: The Maschhoffs, LLC Home Phone: _____ Mobile Phone: (618) 594 - 2125 Address: 7475 State Route 127 Carlyle, IL, 62231
Contract Holder: The Maschhoffs, LLC Home Phone: _____ Mobile Phone: (618) 594 - 2125 Address: 7475 State Route 127 Carlyle, IL, 62231	Field Advisor: Wesley, Greg Home Phone: (217) 734 - 2352 Mobile Phone: (217) 883 - 3241 Address: _____

### Alarm Contact Order

- |   |             |                |
|---|-------------|----------------|
| 1 | Name: _____ | Phone #: _____ |
| 2 | Name: _____ | Phone #: _____ |
| 3 | Name: _____ | Phone #: _____ |
| 4 | Name: _____ | Phone #: _____ |
| 5 | Name: _____ | Phone #: _____ |

## Emergency Contact List

Archery - Bald Eagle

### Farm Contacts

### Phone Numbers

Name	Category	Mobile	Business	Home
New Dominion Farms, Inc.	Site Owner	(312) 543 - 6920	(660) 726 - 3065	(816) 361 - 4930
The Maschhoffs, LLC	Site Operator	(618) 594 - 2125	(618) 594 - 2125	
The Maschhoffs, LLC	Contract Holder	(618) 594 - 2125	(618) 594 - 2125	
Wesley, Greg	Field Rep	(217) 883 - 3241	(217) 285 - 9001	(217) 734 - 2352
	Veterinarian			
Pittsfield Feed Mill	Feed Mill		(217) 285 - 9001	
	Custom Applicator			
	Construction			
	Electrician			
	Plumbing			
	Maintenance			
	Transport			
	Environmental			
Sun Rise AG Service Co-Main	Gas Company		(217) 452 - 7751	
	Water Company			
Illinois Rural Electric	Electric Company		(217) 742 - 3128	
Adams, Mindy	NMP Consultant		(618) 594 - 0336	
Bluff Springs Fire Dept	Fire		911	
Cass Co Sheriff	Police		911	
Cass Co. Health Department	Health Department		(217) 452 - 3057	
Cass Co. NRCS	NRCS/SWCD		(217) 452 - 3535	
Danner, Wade	Manager	(217) 883 - 0844		(217) 458 - 2684
Darling International Inc.	Rendering		(217) 482 - 3261	
Hardwick Bros	Land Operator	(217) 248 - 9285	(217) 323 - 4403	

## Emergency Contact List

Archery - Bald Eagle

IDOA (Springfield)	Department Of Agriculture		(217) 785 - 4735	
IEMA	Emergency Management		(800) 782 - 7860	
IEPA	State Regulatory		(217) 782 - 0610	
Jokisch, R.L.	Land Operator	(217) 248 - 1542		(217) 323 - 4321
Kloker, Robert	Land Operator			(217) 323 - 5016
McCombs, Marty	CLM	(217) 248 - 2195	(217) 323 - 5509	(217) 458 - 2694
Mecca Paramedics	Ambulance		911	
Menard Electric	Electric Company		(800) 872 - 1203	
Pena, Javier	Manager			(217) 323 - 4295
Wesley, Greg	Production Manager	(217) 883 - 3241	(217) 285 - 9001	(217) 734 - 2352
Wettstein, Paul	Regional Manager	(641) 777 - 5418	(217) 285 - 9001	
Workman, Darin	Project Manager	(217) 371 - 2760	(217) 285 - 9001	(217) 734 - 2803

## Emergency Contact List

Archery - Bald Eagle

### Maschhoff Contacts


### Phone Numbers

Name	Category	Mobile	Business	Home
Braundmeier, Art	Environmental	(618) 444 - 5576	(618) 594 - 0346	
Brinkmann, Jason	Transport		(618) 830 - 1455	
Gaines, Aaron	Product Resources &		(573) 256 - 4697	
Johnson, Clayton	Veterinarian	(618) 830 - 4940	(618) 594 - 2125	
Laatsch, Timothy	Product Supply & Operations	(618) 830 - 1041	(618) 594 - 2125	
Maschhoff, Dave	Senior Consultant	(618) 830 - 8610	(618) 594 - 2125	
Maschhoff, Julie	Public Relations		(618) 628 - 2273	
Maschhoff, Ken	Asset Management		(618) 594 - 2125	
Nagel, Mark	Feed Mill		(618) 594 - 0257	(618) 654 - 7598
Quick, Steve	Animal Welfare	(618) 830 - 5300	(618) 594 - 2125	

Document Title	<b>Barn Emergency Response Plan</b>	
Division	<b>Environmental Services</b>	
Version	<b>3/2/2009</b>	
Document Type	<b>Work Instruction</b>	
Owner	<b>Art Braundmeier</b>	

## MEDICAL EMERGENCY

1. **STOP** all other activities to address the emergency.
2. **CHECK** scene and the nature and extent of the medical emergency.  
Insure that the scene and/or area is safe to enter. Determine how much help is needed.
3. **CALL** 9-1-1 or the local emergency number for an ambulance immediately if the victim needs emergency medical treatment (loss of consciousness, severe bleeding, airway/breathing difficulty, eye injury, broken bones, spinal injury, chest pains, etc).
  - a. **For life-threatening injuries or illnesses** ( chest pains, eye injury, severe bleeding, head/neck wound, airway/ breathing difficulty, loss of consciousness, broken bones, etc.) **someone should call 9-1-1 immediately.** If unsure whether the situation is a life-threatening emergency, 911 should be called.
    - ❖ When reporting the emergency provide the following information:
      - Type of Emergency
      - Address of Facility
      - Location of the Victim
      - Condition of the Victim
      - Any dangerous conditions
      - Name of Caller
    - ❖ Do not move the individual unless authorized by some medical authority, or it the accident scene is becoming unsafe for the responders and accident victim.
  - b. If the injury/illness is not life threatening, the employee will notify the supervisor immediately. If unsure whether the situation is a life-threatening emergency, 9-1-1 should be called.
    - ❖ Employee will seek immediate medical attention as deemed appropriate
    - ❖ If the individual does not request an ambulance, then assist the individual, in the form of transportation, to the proper medical treatment facility.
4. **CARE** for the victim until help arrives.


Document Title	<b>Barn Emergency Response Plan</b>	
Division	<b>Environmental Services</b>	
Version	<b>3/2/2009</b>	
Document Type	<b>Work Instruction</b>	
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## FIRE PROCEDURES

1. **STOP** all other activities to address the emergency.
2. **CALL** the fire protection district immediately.
3. **EVACUATE** the building upon seeing smoke/fire or hearing the fire alarm (other types of evacuation are covered elsewhere in this document):
  - a. Verbally warn employees in the immediate area, (such as, yelling "FIRE!")
  - b. All employees are required to evacuate the building, unless otherwise assigned or authorized to remain by the emergency agency in charge.
  - c. **CLOSE THE DOORS AS YOU LEAVE.**
  - d. Use Stairways. When out, move away from building to a prearranged assembly area for a head count. You should be as far out from the building as it is high. Leave walks and drives open for fire and emergency responders.
  - e. If necessary for a safe, orderly evacuation, activate fire extinguishers or firehose. At the discretion of the individual, use extinguisher if trained and assigned to do so.
4. **ASSESS** the nature and extent of the fire. If there is no immediate danger and you can safely do so:
  1. **CLOSE** main valve at propane tank.
  2. **DO NOT** turn off electrical mains unless directed by fire personnel.
5. **NOTIFY** Maschhoff personnel of the fire as soon as possible.
6. **POWER** disruptions can affect the water, feed, ventilation, emergency power, and manure transfer systems. Make sure all systems are operational for any surviving animals, especially the ventilation system.
7. **EMERGENCY ANIMAL RELOCATION:** Establish emergency transportation contacts in advance and make transport arrangements for surviving animals.

### NOTES:


- ❖ Schedule a visit to the farm with your local fire chief to ensure the fire and protection department is aware of the location of the primary systems on the farm.
- ❖ Make sure breaker panels are labeled with the appropriate systems that they control.
- ❖ Make arrangements for emergency power (portable generators). Know where your main power systems are located, including underground electrical lines. (Refer to the **POWER OUTAGE** guidelines.)

Document Title	<b><i>Barn Emergency Response Plan</i></b>	
Division	<b><i>Environmental Services</i></b>	
Version	<b><i>3/2/2009</i></b>	
Document Type	<b><i>Work Instruction</i></b>	
Owner	<b><i>Art Braundmeier</i></b>	

- ❖ Make emergency arrangements for temporary gas supplies in case the main pipe gets destroyed.
- ❖ Make arrangements for other construction supplies to make emergency repairs.
- ❖ Document and have diagrams of all underground wiring, critical control points of the electrical system, and methods for shutting off gas mains.


## POWER FAILURE

1. **STOP** all other activities to address the emergency.
2. **MAKE SURE** generator starts and is working properly.
3. If generator fails, **VACATE** personnel and **DO NOT RE-ENTER** the confinement areas until ventilation is re-established due to possible asphyxiation hazard.
4. **MONITOR** generator and fuel level periodically to ensure proper operation.
5. **DROP** emergency curtains **ONLY** in the event that electrical power cannot be restored within 15 minutes (varies with size of animals and ambient temperature).
6. **NOTIFY** Maschhoff personnel of the outage as soon as possible.

Document Title	<b>Barn Emergency Response Plan</b>	
Division	<b>Environmental Services</b>	
Version	<b>3/2/2009</b>	
Document Type	<b>Work Instruction</b>	
Owner	<b>Art Braundmeier</b>	

## SEVERE WEATHER

1. **SEEK SHELTER** in an area of the building protected by concrete, that has no glass windows( exterior or interior) such as a hallway or bathroom area. Alternately for a tornado, seek shelter in a nearby ditch or culvert. Exit the shelter area **ONLY** after the danger has fully passed.
2. **ASSESS** damage and implement necessary procedures as described above.
  - a. Thunderstorm Warning, it is not necessary to take any additional steps other than to ensure that you are prepared if the conditions deteriorate.
  - b. Tornado Warning, take shelter in an area of the building protected by concrete, such as a hallway or bathroom area.
    - ❖ If you are unable to seek shelter in one of the designated areas, move away from windows. Stay away from auditoriums, areas having a wide, free span roof, or the upper levels of a building. Take cover under heavy furniture.
    - ❖ If you are outdoors and unable to access an indoor shelter, lie flat in the nearest depression, such as a ditch or ravine. If there is time, move away from the path of the Tornado at a right angle.
  - c. Blizzard
    - 1) If indoors:
      - a. Stay calm and await instructions from the designated official.
      - b. Stay indoors!
      - c. If there is no heat:
        - Close off unneeded rooms or areas.
        - Stuff towels or rags in cracks under doors.
        - Cover windows at night.
      - d. Eat and drink. Food provides the body with energy and heat. Fluids prevent dehydration.
      - e. Wear layers of loose-fitting, lightweight, warm clothing, if available.
    - 2) If outdoors:
      - a. Find a dry shelter. Cover all exposed parts of the body.
      - b. If stranded in a vehicle:
        - Stay in the car or truck.
        - Run motor about ten minutes each hour. Open the window a little for fresh air. Make sure exhaust pipe is not blocked.
        - Make yourself visible to rescuers.
        - Exercise to keep blood circulating and to keep warm.

Document Title	<b><i>Barn Emergency Response Plan</i></b>	
Division	<b><i>Environmental Services</i></b>	
Version	<b><i>3/2/2009</i></b>	
Document Type	<b><i>Work Instruction</i></b>	
Owner	<b><i>Art Braundmeier</i></b>	


- d. Earthquakes usually occur without any type of warning. Due to the suddenness, all personnel should attempt to get under a table or desk, or any place that the employee feels is safe. After an earthquake has stopped, initiate the following procedure:
  - 1) Stay calm and await instructions from the designated official.
  - 2) Keep away from overturned fixtures, windows, filing cabinets, and electrical power.
  - 3) Check for injuries and provide assistance as needed.
  - 4) Maintenance department should check for fires and shut off utilities to control gas and water leaks.
  - 5) If major structural damage has occurred, the Executive team, or designated representative(s), should order a complete evacuation. The building should be inspected by Business Development, or designated representative(s), for damage prior to reentry.
3. If you come into contact with an employee or visitor you should direct them to take shelter in the building. If you come into contact with an occupant who is disabled or having difficulty taking shelter you should assist the individual in getting into or taking shelter.
4. After the danger has passed, you should report to the designated shelter/assembly point to allow the Emergency Coordinator to take a survey of all present to determine if anyone is potentially missing.

Document Title	<b>Barn Emergency Response Plan</b>	
Division	<b>Environmental Services</b>	
Version	<b>3/2/2009</b>	
Document Type	<b>Work Instruction</b>	
Owner	<b>Art Braundmeier</b>	

## MANURE DISCHARGE

1. **STOP** all non-emergency activities to address the situation.
2. **CHECK** the scene to make sure it is safe.  
Assess the extent of the emergency.  
Determine how much help is needed.
3. **CALL** for help as needed.
  - a. If serious human injuries have occurred, immediately call 9-1-1 or the local emergency number for an ambulance before caring for the victim.
  - b. If manure has been spilled on the road, contact police for traffic control.
  - c. **Call The Maschhoffs Environmental Services personnel at 618-830-8044 (Mike Kampwerth) or 618-444-5576 (Art Braundmeier).**
4. **CARE** for any injured people.
5. **CONTAIN** the spill and prevent downstream movement to waters of the state. Depending on the situation, this may or may not be possible.  
Suggested responses to several problems are listed below:
  - a. *Lagoon or slurry basin overflow possible solutions:*
    - add soil to berm to increase elevation of dam
    - pump wastes to fields at an acceptable rate
    - stop all additional flow to the structure (waters, flushing system, etc.)
    - call a pumping contractor
    - make sure no surface water is entering storage structure

*\* Note: These activities should be started when your lagoon level has exceeded the temporary storage level.*
  - b. *Runoff from waste application field actions include:*
    - immediately stop waste application
    - create a temporary diversion or berm to contain the waste in the field
    - incorporate waste to reduce further runoff

Document Title	<b><i>Barn Emergency Response Plan</i></b>	
Division	<b><i>Environmental Services</i></b>	
Version	<b><i>3/2/2009</i></b>	
Document Type	<b><i>Work Instruction</i></b>	
Owner	<b><i>Art Braundmeier</i></b>	

- evaluate and eliminate the reason(s) that caused the runoff
  - evaluate the application rates for the fields where runoff occurred
- c. *Leakage from the waste distribution system:*
- pipes and sprinklers – actions include:
    - ☐ stop recycle (flushing system) pump
    - ☐ stop irrigation pump
    - ☐ close valves to eliminate further discharge
    - ☐ separate pipes to create an air gap and stop flow
    - ☐ repair all leaks prior to restarting pumps
  - flush system, houses, solids separators – actions include:
    - ☐ stop recycle (flushing system) pump
    - ☐ stop irrigation pump
    - ☐ make sure no siphon effect has been created
    - ☐ separate pipes to create an air gap and stop flow
    - ☐ repair all leaks prior to restarting pumps
    - ☐ Park tractor on hose end or use hose jacks to stop flow.
- d. *Leakage from base or sidewall of lagoon or earthen storage structure.* Often these are seepage rather than flowing leaks-possible action:
- dig a small well or ditch to catch all seepage, put in a submersible pump, and pump back into lagoon
  - if holes are caused by burrowing animals, trap or remove animals and fill holes and compact with a clay type soil
  - other holes may be likewise temporarily plugged with clay soil
6. **ASSESS** the extent of the spill and note any obvious damages.
- a. Did the waste reach any surface waters?
  - b. Approximately how much was released and for what duration?
  - c. Any damage noted, such as employee injury, fish kills, or property damage?
  - d. Did the spill leave the property?
  - e. Does the spill have the potential to reach surface waters?
  - f. Could a future rain event cause the spill to reach surface waters?

Document Title	<b><i>Barn Emergency Response Plan</i></b>	
Division	<b><i>Environmental Services</i></b>	
Version	<b><i>3/2/2009</i></b>	
Document Type	<b><i>Work Instruction</i></b>	
Owner	<b><i>Art Braundmeier</i></b>	

- g. Are potable water wells in danger (either on or off the property)?
7. **REPORT** the spill.
  - a. Contact Environmental Services with spill details.
  - b. Environmental Services will be responsible for all verbal and written regulatory reporting requirements for that state.
8. **IMPLEMENT** procedures as advised by the appropriate agency.
9. **CLEAN** all livestock manure from the affected area.
  - a. Vacuum-pump the manure to an approved manure storage or land apply the manure according to the nutrient management plan.
  - b. Flush residual materials from the area with pressurized fresh water.
  - c. Capture and land apply rinse water.
  - d. Excavate and land apply manure-saturated soil.
  - e. Remove the temporary containment, and flush the affected area with large volumes of fresh water until clean.
  - c. **REPAIR** the equipment that caused the discharge before further use.
  - d. **RESTORE** the grade and vegetation of the affected area.
  - e. **DOCUMENT** all cleanup and repair activities with a written log and photographs.

**Illinois Environmental Protection Agency  
Livestock Waste Release  
Required Report Information Form**

Send written reports to:  
Illinois EPA, Bureau of Water, Compliance Assurance Section  
P.O. Box 19276, Springfield, Illinois 62794-9276

Report any release of livestock waste in Illinois by phone within 24 hours after discovery of the release. In Illinois call (800) 782-7860, outside of Illinois call (217) 782-7860. A written report (form optional) to the Illinois EPA confirming information provided by telephone is required within 5 days after discovery of the release. Attach additional pages if more space is required to answer questions.

---

Name of Person Reporting Release: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

Release Source: \_\_\_\_\_ County: \_\_\_\_\_  
(Where Release Occurred)

Date & Time Release Began: \_\_\_\_\_ Duration of the release: \_\_\_\_\_

Cause of Release: \_\_\_\_\_

Give distance and direction of the release from nearest town, village or municipality.  
If possible give legal description down to quarter section.

Estimate the quantity that was released and the flow rate if the release is ongoing.

Quantity: \_\_\_\_\_ Gallons      Flow Rate: \_\_\_\_\_ Gallons/Day

Circle appropriate area(s) into which the release occurred:    Field      Ditch      Stream      Other  
If other please describe:

Estimated Release Extent:      \_\_\_\_\_ Sq. Ft      \_\_\_\_\_ Sq. Yd      \_\_\_\_\_ Acres

What are the apparent environmental impacts of the release?

Contact Person for Additional Information:    Name: \_\_\_\_\_  
Telephone number: \_\_\_\_\_

Describe any dangers to health or the environment resulting from the release.

Describe all actions taken to respond to, contain and mitigate the release.

Facility Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

The Illinois EPA is authorized to request this information under the Environmental Protection Act, Illinois Compiled Statutes ("ILCS"), 1999, as amended, Chapter 415 ILCS Sections 5/4(b) and 5/4(h). Use of this reporting format is voluntary, as long as the information required by the Livestock Management Facilities Act, Chapter 510 ILCS Section 77/18 concerning the release is reported in a timely manner.