

### Summary of Manure Applications

Applications are entered for the crop year (i.e. 2008 applications are applied in Fall 2007 - Spring 2008 for 2008 crop)

FSA Tract #	Field Name	Acres Available for Application	Year	Crop	Planned Manure (1000 gal)	Planned Manure (total gal)	Manure Source	Planned N Applied lbs/ac	Planned P Applied lbs/ac	Planned K Applied lbs/ac	Commercial N Needed (lbs/ac)
5345	Asche	76.62	2009	Alfalfa							
			2010	Silage	15.1	1,158,958	Liquid	180	180	119	0
1700			2011	Corn	16.8	1,288,489	Liquid	200	133	303	0
			2012	Oat/ Alfalfa	0.0	0		0	0	0	34
			2013	Alfalfa	10.6	814,471	Liquid	126	84	191	-139
1-11			2014	Alfalfa	0.0	0		0	0	0	-18
1688	Church	42.43	2009	Silage							
			2010	Oat/ Alfalfa	0.0	0		0	0	0	50
7315			2011	Alfalfa	0.0	0		0	0	0	-5
			2012	Alfalfa	0.0	0		0	0	0	-3
14 & 23			2013	Silage	15.0	637,119	Liquid	179	119	270	0
			2014	Corn	16.8	713,942	Liquid	200	133	303	0
7315	Dairy	162.75	2009	Alfalfa							
			2010	Alfalfa	0.0	0		0	0	0	0
5099			2011	Alfalfa	10.6	1,730,506	Liquid	127	84	191	-127
4344			2012	#REF!	10.6	1,730,506	Liquid	127	84	191	-138
1-4			2013	Alfalfa	10.6	1,730,506	Liquid	127	84	191	-143
1-5			2014	Alfalfa	10.6	1,730,506	Liquid	127	84	191	-146
5149	Hasken	11.07	2009	Oat/ Alfalfa							
			2010	#REF!	0.0	0	Liquid	0	0	0	50
4459			2011	Alfalfa	0.0	0		0	0	0	-5
			2012	Alfalfa	0.0	0		0	0	0	-3
			2013	Alfalfa	0.0	0		0	0	0	-1
1, 7, & 12			2014	Alfalfa	10.6	117,706	Liquid	127	84	191	-127

### **Summary of Manure Applications continued**

*Applications are entered for the crop year (i.e. 2008 applications are applied in Fall 2007 - Spring 2008 for 2008 crop)*

FSA Tract #	Field Name	Acres Available for Application	Year	Crop	Planned Manure (1000 gal)	Planned Manure (total gal)	Manure Source	Planned N Applied lbs/ac	Planned P Applied lbs/ac	Planned K Applied lbs/ac	Commercial N Needed (lbs/ac)
7080	Hershey	66.87	2009	Silage							
			2010	Corn	17.3	1,154,772	Liquid	206	206	136	0
4572			2011	Oat/ Alfalfa	6.5	400	Solid	37	20	39	0
			2012	Alfalfa	0.0	0		0	0	0	-19
			2013	Alfalfa	0.0	0		0	0	0	-9
1-9			2014	Alfalfa	10.6	711,023	Liquid	127	84	191	-131

7355	Huttenlocher	67.49	2009	Alfalfa							
			2010	Alfalfa	0.0	0		0	0	0	0
1698			2011	Alfalfa	0.0	0		0	0	0	0
			2012	Silage	15.1	1,020,857	Liquid	180	119	272	0
			2013	Silage	13.8	930,782	Liquid	164	109	248	0
5			2014	Silage	13.2	893,692	Liquid	158	105	238	0

6315	Musser North	60.99	2009	Corn							
			2010	Silage	15.1	922,538	Liquid	180	180	119	0
5047			2011	Corn	16.8	1,025,645	Liquid	200	133	303	0
			2012	Oat/ Alfalfa	0.0	0	Solid	0	0	0	34
1-3			2013	Alfalfa	0.0	0		0	0	0	-13
18-23			2014	Alfalfa	0.0	0		0	0	0	-6

6315	Musser Middle	75.15	2009	Oat/ Alfalfa							
			2010	Alfalfa	0.0	0		0	0	0	0
			2011	Alfalfa	0.0	0		0	0	0	0
			2012	Alfalfa	0.0	0		0	0	0	0
			2013	Silage	15.1	1,136,723	Liquid	180	119	272	0
6 & 17			2014	Silage	13.8	1,036,424	Liquid	164	109	248	0

### Summary of Manure Applications continued

*Applications are entered for the crop year (i.e. 2008 applications are applied in Fall 2007 - Spring 2008 for 2008 crop)*

FSA Tract #	Field Name	Acres Available for Application	Year	Crop	Planned Manure (1000 gal)	Planned Manure (total gal)	Manure Source	Planned N Applied lbs/ac	Planned P Applied lbs/ac	Planned K Applied lbs/ac	Commercial N Needed (lbs/ac)
6312	Musser South	60.15	2009	Alfalfa							
			2010	Silage	15.1	909,832	Liquid	180	180	119	0
5047			2011	Silage	13.8	829,553	Liquid	164	109	248	0
			2012	Silage	13.2	796,496	Liquid	158	105	238	0
16			2013	Oat/ Alfalfa	0.0	0		0	0	0	35
			2014	Alfalfa	0.0	0		0	0	0	-13

7315	Rod's Home East	36	2009	Alfalfa							
			2010	Silage	15.1	544,538	Liquid	180	180	119	0
1713			2011	Corn	16.8	605,398	Liquid	200	133	303	0
			2012	Oat/ Alfalfa	0.0	0		0	0	0	34
1, 4-9			2013	Alfalfa	0.0	0		0	0	0	-13
			2014	Alfalfa	10.6	382,680	Liquid	126	84	191	-133

7315	Rod's Home West	16	2009	Silage							
			2010	Silage	15.1	242,017	Liquid	180	180	119	0
1713			2011	Silage	13.8	220,662	Liquid	164	109	248	0
			2012	Silage	13.2	211,869	Liquid	158	105	238	0
1, 4-9			2013	Silage	13.0	208,249	Liquid	155	103	234	0
			2014	Silage	12.9	206,758	Liquid	154	102	233	0

7315	Rod's North of Creek	48.39	2009	Silage							
			2010	Silage	14.2	689,253	Liquid	170	170	113	0
1713			2011	Corn	16.5	796,175	Liquid	196	130	296	0
			2012	Oat/ Alfalfa	0.0	0		0	0	0	33
2 & 3			2013	Alfalfa	0.0	0		0	0	0	-14
			2014	Alfalfa	10.6	514,527	Liquid	127	84	191	-133

**Summary of Manure Applications continued**

*Applications are entered for the crop year (i.e. 2008 applications are applied in Fall 2007 - Spring 2008 for 2008 crop)*

FSA Tract #	Field Name	Acres Available for Application	Year	Crop	Planned Manure (1000 gal)	Planned Manure (total gal)	Manure Source	Planned N Applied lbs/ac	Planned P Applied lbs/ac	Planned K Applied lbs/ac	Commercial N Needed (lbs/ac)
471	Shester	97.24	2009	Silage							
			2010	Corn	17.3	1,679,229	Liquid	206	206	136	0
1690			2011	Oat/ Alfalfa	0.0	0		0	0	0	37
			2012	Alfalfa	0.0	0		0	0	0	-12
1 & 5			2013	Alfalfa	10.6	1,033,661	Liquid	126	84	191	-132
			2014	Alfalfa	0.0	0		0	0	0	-13

4326	Schleunin g	30.44	2009	Alfalfa							
			2010	Alfalfa	0.0	0		0	0	0	0
3956			2011	Alfalfa	0.0	0		0	0	0	0
3957			2012	Silage	13.1	400	Solid	75	39	79	105
2			2013	Corn	13.1	400	Solid	75	39	79	128
1			2014	Oat/ Alfalfa	6.9	210	Solid	39	21	41	0

7315	South Ridge	83.72	2009	Alfalfa							
			2010	Alfalfa	0.0	0		0	0	0	0
3578			2011	Silage	15.1	1,266,353	Liquid	180	119	272	0
3951			2012	Corn	16.8	1,407,887	Liquid	200	133	303	0
1 & 2			2013	Oat/ Alfalfa	0.0	0		0	0	0	34
4			2014	Alfalfa	0.0	0		0	0	0	-13

**Running Totals of Manure Production****Birchen Farms INC.**

		<b>Total Produced gallons</b>	<b>Year End Total Produced gallons</b>	<b>Total Applied gallons</b>	<b>Year End Totals gallons</b>
<b>CROP YEAR</b>					
<b>2011</b>	Liquid	7,000,000	7,000,000	7,762,780	-762,780
<b>2012</b>	Liquid	7,000,000	6,237,220	5,167,616	1,069,604
<b>2013</b>	Liquid	7,000,000	8,069,604	6,491,510	1,578,094
<b>2014</b>	Liquid	7,000,000	8,578,094	6,307,257	2,270,837

		<b>Total Produced gallons</b>	<b>Year End Total Produced gallons</b>	<b>Total Applied gallons</b>	<b>Year End Totals gallons</b>
<b>CROP YEAR</b>					
<b>2011</b>	Solid	400	400	400	0
<b>2012</b>	Solid	400	400	400	0
<b>2013</b>	Solid	400	400	400	0
<b>2014</b>	Solid	400	400	210	190