

2010/2011 Penn State Cover Crop Demonstration plots
 Study is funded with NRCS Conservation Innovation Grant

Penn State **Extension**

Forage quality of forage samples cut leaving a 2" stubble

Samples were taken when biomass sampling occurred in November/early December 2010

Samples taken only from Montgomery, Dauphin, and Lebanon Counties, all with recent history of manure applications.

Forage analyses conducted by Dairy One

Crimson Clover + Annual Ryegrass

<u>County</u>	<u>DM above 2" (lb/ac)</u>	<u>CP</u>	<u>ADF</u>	<u>NDF</u>	<u>TDN</u>	<u>NEL</u>	<u>RFV</u>	<u>% N</u>	<u>lbs N/ac</u>	<u>% P</u>	<u>% P2O5</u>	<u>lbs P2O5/ac</u>	<u>% K</u>	<u>% K2O</u>
Montgomery	1697	26.6	24.7	32.0	66	0.70	202	4.3	73	0.48	1.1	19	3.9	4.7
Dauphin	1058	26.5	22.2	38.1	62	0.65	175	4.2	44	0.54	1.2	13	3.7	4.4
Lebanon	1127	26.2	16.4	34.1	63	0.67	208	4.2	47	0.50	1.1	12	3.4	4.0
Average	1294	26.4	21.1	34.7	64	0.67	195	4.2	55	0.51	1.13	15	3.6	4.4

Oats + Cereal Rye

<u>County</u>	<u>DM above 2" (lb/ac)</u>	<u>CP</u>	<u>ADF</u>	<u>NDF</u>	<u>TDN</u>	<u>NEL</u>	<u>RFV</u>	<u>% N</u>	<u>lbs N/ac</u>	<u>% P</u>	<u>% P2O5</u>	<u>lbs P2O5/ac</u>	<u>% K</u>	<u>% K2O</u>
Montgomery	2817	17.3	20.9	37.5	63	0.66	180	2.8	79	0.51	1.2	34	3.4	4.1
Dauphin	1982	28.6	28.6	40.0	63	0.65	155	4.6	91	0.72	1.6	32	4.5	5.4
Lebanon	2111	25.2	27.1	41.7	62	0.64	151	4.0	84	0.67	1.5	32	4.1	4.9
Average	2303	23.7	25.5	39.7	63	0.65	162	3.8	85	0.63	1.43	32	4.0	4.8

Tillage radish + Cereal Rye

<u>County</u>	<u>DM above 2" (lb/ac)</u>	<u>CP</u>	<u>ADF</u>	<u>NDF</u>	<u>TDN</u>	<u>NEL</u>	<u>RFV</u>	<u>% N</u>	<u>lbs N/ac</u>	<u>% P</u>	<u>% P2O5</u>	<u>lbs P2O5/ac</u>	<u>% K</u>	<u>% K2O</u>
Montgomery	2286	22.5	20.0	36.8	64	0.67	185	3.6	82	0.62	1.4	32	3.6	4.4
Dauphin	1777	33.1	27.2	34.6	65	0.69	182	5.3	94	0.73	1.7	30	4.5	5.5
Lebanon	2058	28.6	26.3	37.7	64	0.67	169	4.6	95	0.70	1.6	33	3.6	4.4
Average	2041	28.1	24.5	36.4	64	0.68	179	4.5	90	0.68	1.57	32	3.9	4.8