Nutrient Balance Sheet

Prepared for

Steve Dunkle
9 Young's Addition Road
Mill Hall, PA 17751
570-660-1809
Clinton

Prepared by

Corey A. Grove
Certification # 1786
TeamAg Inc.
120 Lake Street
Ephrata, PA 17522
Clinton

Nutrient Management Specialist or Broker 2 Signature

Date of Development 7/24/2020 Updated 2/4/2021

This nutrient balance sheet has been developed for manure exported for agricultural land application under the following Act 38 export option:

- [x] Exported to a known operation (included in Exporter NMP)
- [ ] Exported through a broker (include Broker information below if not prepared by a broker)

Exporter Information

Nicholas Meats, LLC
508 East Valley Road
Loganton, PA 17747
570-660-7500
Clinton

TeamAg Incorporated

Exporter/Importer Agreement

Manure Used For Agricultural Land Application

Developed consistent with the PA Nutrient and Odor Management Act Program

1) This agreement is entered into on 1/15/2021, by Nicholas Meat, LLC (the "exporter") who will supply manure, and Steve Dunkle (the "importer"), who will receive the manure from the exporter.

2) The purpose of this agreement is to set forth the mutual responsibilities and understanding of the parties with respect to the export of manure from the exporter to the importer.

3) The exporter is located at (county, twp, and address): Clinton County, Green Twp., 508 East Valley Road Loganton, PA 17747

4) The exporter will, as the supply of manure allows, provide the following amounts of manure during the seasons outlined below:
Gallons of FPR *(species)* manure, per season:
Spring 3,018,600 Summer 3,825,900 Fall 3,018,600 Winter 396,800

Total planned manure exported: (supply of manure may be less than what is planned)
Gallons of FPR *(species)* manure: 10,259,900

5) The importer's location and other relevant information as it relates to this manure export, is as follows (maps indicating the location of importing fields must be attached to the supporting Nutrient Balance Sheets if manure is to be land applied at the importing site):

a) **Phone number**: 570-660-1809
b) **County(s)**: Clinton
c) **Address:** 9 Young's Addition Road Mill Hall, PA 17751
d) **Township(s)**: Lamar
d) **Owner(s) of the property receiving manure**: James Maguire, Boyd Wetzel, Anita Everly, Donald Kramer
e) **Total cropland acres managed by the importer**: 167.7
f) **Number and type of animals raised by the importer**: None
g) **Number of acres available for this imported manure**: 167.7
h) **Other manures (type, amount) imported to the site AND/OR utilized on the site**: (Note- this would include manure that is generated on the site by the importers animals, etc.) None
   - **If other manure is generated, imported and/or utilized, is it applied to the same acres as indicated in item "g" above (relating to "acres available")**: ☐ Yes or ☒ No
   - **If other manure is generated, imported and/or utilized, is it applied during the same season as the imported manure:** ☐ Yes or ☒ No

6) The exporter will use a Manure Export Sheet to record all manure exported to the importer. These Manure Export Sheets are available from the county conservation district or the State Conservation Commission. Computer generated forms other than the manure export sheet may be used if they contain the same information as, and are reasonably similar in format to, the forms available from the State Conservation Commission or the conservation district.

7) Records relating to the export of manure shall be prepared by the exporter in accordance with the following requirements of the Nutrient and Odor Management Act regulations:
   a) A Manure Export Sheet shall be used to document all manure exports for their records
      - A copy of the Manure Export Sheet shall be provided to the importer
      - A copy of the Manure Export Sheet shall be retained on site by the exporter

   b) When the exporter (or someone working for, or contracted by the exporter) applies the exported manure, the exporter shall maintain the following exported manure records:
      - Application dates, areas, rates and methods

   c) Records shall be maintained by the exporter for a minimum of 3 years

   d) A manure export informational packet (as supplied by the conservation district or State Conservation Commission) shall be provided to the importer by the time of the manure export. This information only needs to be provided once to the importer.
   The manure export informational packet must include the following:
      i. Exported Manure Informational Packet Guidance Sheet
      ii. Nutrient Management Planning an Overview (Agronomy Facts 60)
      iii. Manure Management for Environmental Protection
      iv. Land Application of Manure- A supplement to the Manure Management Manual Plan Guidance
      v. Manure Export Sheet
      vi. Manure Transfer Summary Sheets
      vii. Manure Field Stacking Requirements Fact Sheet

8) Where applicable, the importer shall properly store manure received from the exporter in accordance with the provisions of the Manure Management Manual and the Pa Technical Guide and shall not cause contamination of surface or ground water. This shall include manure stacked in application fields which may not be retained in fields for > 120 days unless covered or otherwise protected .

9) Manure received by the importer shall be applied to the land at the rate(s) and method(s) provided in the attached "Nutrient Balance Sheet(s)", or in accordance with a Nutrient Management Plan approved for the importing operation. If the importer wishes to change the lands used for imported manure, the nutrient balance sheet must be revised to reflect the changes and be submitted to the conservation district or State Conservation Commission (and DEP if the exporter is a CAFO) prior to implementing the changes.

10) The importer shall comply with applicable manure application setbacks for the imported manure, as outlined in the Nutrient Balance Sheet map(s).

11) For any lands not owned by the importer where the manure will be applied (i.e., rented lands), the importer hereby confirms that the importer has the authority to apply manure on those lands.

12) This agreement shall remain in full effect unless terminated by either party upon thirty days prior written notice to the other party. If this agreement is terminated, the exporter shall notify the county conservation district office that approved their nutrient management plan, of the termination.

Exporter Signature, Name and Date		**Importer Signature, Name and Date**	
E. N	(signature)	Stephen Dunkle	(signature)
Doug Nicholas	(name)	STEPHEN DUNKLE	(name)
1/15/21	(date)	01/14/21	(date)

Nutrient Balance Sheet Summary

Importing Farm: Steve Dunkle

Whole Farm Note: Only one organic nutrient source shall be applied per field per crop year. Winter applications are reduced to 6,200 gal/ac to accommodate winter conditions.

Fall manure applications require at least 25% cover unless the crop management unit is planted to a cover crop in time to allow for appropriate growth to control runoff until the next growing season, or the manure is injected or mechanically incorporated within 5 days using minimal soil disturbance techniques consistent with no-till farming practices.

Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate[1]		Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
										N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			4	-56	-26
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	M	9000	Gal/A									

[1] See Nutrient Management Plan Summary Notes

[2] Positive numbers = nutrient deficit; Negative numbers = nutrient excess

[3] Multiple Designation Mi=Initial, M=Middle(s), Mf=Final

Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate[1]		Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
										N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	Mf	9000	Gal/A				0			31	-15	142
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			4	-7	156
Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Wheat	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	Mi	9000	Gal/A									
Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Wheat	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	M	9000	Gal/A									
Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Wheat	Nicholas Meat FPR	Early Fall	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none	Mf	9000	Gal/A				0			14	32	114
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	Mi	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									

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										Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate[1]		N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgrass	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			52	-69	160
Oats	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Oats	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Oats	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Oats	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			20	48	100
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	Mi	9000	Gal/A									
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			10	-8	4
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									

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										Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
Crop Group	**Fields**	**Acres**	**Crop**	**Manure Group**	**Application Season**	**Application Management**	**Multiple Designation**	**Planned Manure Rate[1]**		**N**	**P_2O_5**	**K_2O**	**N**	**P_2O_5**	**K_2O**	**N**	**P_2O_5**	**K_2O**
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			2	-14	0
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Corn	Wetzell 1,Wetzell 2	39.2	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				15			3	-46	-20
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate[1]		Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
										N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgrass	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				65			1	-59	166
Small Grain Silage Double Crop Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Maguire 2, 3,4	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			2	35	182
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	39.2	Small Grain Silage	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	39.2	Small Grain Silage	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	39.2	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	39.2	Small Grain Silage	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	Mf	6200	Gal/A				0			45	-5	148
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Small Grain Silage	Nicholas Meat FPR	Summer	Summer: Summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Small Grain Silage	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	M	6200	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Small Grain Silage	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	M	9000	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned Manure Rate[1]		Starter/Other Fertilizer (lb/A)			Supplemental Fertilizer (lb/A)			Nutrient Balance (lb/A)[2]		
										N	P_2O_5	K_2O	N	P_2O_5	K_2O	N	P_2O_5	K_2O
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				0			1	-37	128
Small Grain Silage Double Crop Corn	Wetzell 1	15.1	Small Grain Silage	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals-No cover crop	Mf	6200	Gal/A				0			45	-5	148
Small Grain Silage Double Crop Corn	Wetzell 2	24.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mi	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell 2	24.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A				0					
Small Grain Silage Double Crop Corn	Wetzell 2	24.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	M	9000	Gal/A									
Small Grain Silage Double Crop Corn	Wetzell 2	24.1	Corn for Grain	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	Mf	9000	Gal/A				15			3	3	162

[1] See Nutrient Management Plan Summary Notes

[2] Positive numbers = nutrient deficit; Negative numbers = nutrient excess

[3] Multiple Designation Mi=Initial, M=Middle(s), Mf=Final

NBS Summary Notes

Importing Farm: Steve Dunkle

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Small Grain Silage	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

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Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Wheat	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Wheat	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Established Orchardgrass	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

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Oats	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Oats	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
Oats	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Oats	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

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Corn	Maguire 2, 3,4	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Maguire 2, 3,4: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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Corn	Wetzell 1,Wetzell 2	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Wetzell 1: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Field Wetzell 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Only the top third of the field has a field slope of 3% or less, the remaining part of the field is restricted from winter application.
Corn	Wetzell 1,Wetzell 2	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Wetzell 1: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Field Wetzell 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Only the top third of the field has a field slope of 3% or less, the remaining part of the field is restricted from winter application.
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Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	Established Orchardgrass	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Maguire 2, 3,4: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Field Wetzell 1: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Field Wetzell 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. Only the top third of the field has a field slope of 3% or less, the remaining part of the field is restricted from winter application.
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Small Grain Silage Double Crop Corn	Maguire 2, 3,4	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Maguire 2, 3,4: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

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Small Grain Silage Double Crop Corn	Wetzell 1	Small Grain Silage	Nicholas Meat FPR	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Field Wetzell 1: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Corn			Corn			Corn			Corn			Corn		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	180	72	54	180	72	54	180	72	54	180	72	54	180	72	54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	180	72	54	158	56	44	136	40	34	114	24	24	92	8	14
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	**P2O5**	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Summer: Summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none			Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	73,171 gal/A			64,228 gal/A			55,285 gal/A			46,341 gal/A			37,398 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	40,909 gal/A			31,818 gal/A			22,727 gal/A			13,636 gal/A			4,545 gal/A		
	Crop P Removal (lb/A) 72.0			Crop P Removal (lb/A) 56.0			Crop P Removal (lb/A) 40.0			Crop P Removal (lb/A) 24.0			Crop P Removal (lb/A) 8.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	158	56	44	136	40	34	114	24	24	92	8	14	70	-8	4
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple Initial			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Corn			Corn			Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Small Grain Silage			Small Grain Silage		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			7 ton/A			7 ton/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	180	72	54	180	72	54	180	72	54	119	49	182	119	49	182
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			[22]	Winter Double Crop		[22]	Winter Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Winter Double Crop		0	Rarely - Winter Double Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	70	-8	4	48	-24	-6	26	-40	-16	119	49	182	97	33	172
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with cover crop used as green manure: Incorporated after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	28,455 gal/A			19,512 gal/A			10,569 gal/A			48,374 gal/A			39,431 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	0 gal/A			0 gal/A			0 gal/A			68,750 gal/A			59,659 gal/A		
	Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 121.0			Crop P Removal (lb/A) 105.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	48	-24	-6	26	-40	-16	4	-56	-26	97	33	172	75	17	162
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**4**	**-56**	**-26**						
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Small Grain Silage			Small Grain Silage			Corn for Grain			Corn for Grain			Corn for Grain		
Planned Yield	7 ton/A			7 ton/A			180 bu/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	119	49	182	119	49	182	180	72	54	180	72	54	180	72	54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	[22]	Winter Double Crop		[22]	Winter Double Crop		88	Summer Double Crop		88	Summer Double Crop		88	Summer Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Winter Double Crop		0	Rarely - Winter Double Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	75	17	162	53	1	152	92	57	196	70	41	186	48	25	176
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	30,488 gal/A			21,545 gal/A			37,398 gal/A			28,455 gal/A			19,512 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	50,568 gal/A			41,477 gal/A			32,386 gal/A			23,295 gal/A			14,205 gal/A		
	Crop P Removal (lb/A) 89.0			Crop P Removal (lb/A) 73.0			Crop P Removal (lb/A) 57.0			Crop P Removal (lb/A) 41.0			Crop P Removal (lb/A) 25.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	53	1	152	31	-15	142	70	41	186	48	25	176	26	9	166
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)				**31**	**-15**	**142**									
Multiple Application	Multiple			Multiple Final			Multiple Initial			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Small Grain Silage Double Crop Corn			Wheat			Wheat			Wheat			Orchardgrass		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Corn for Grain			Wheat			Wheat			Wheat			Established Orchardgrass		
Planned Yield	180 bu/A			80 bu/A			80 bu/A			80 bu/A			5 ton/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	180	72	54	80	80	144	80	80	144	80	80	144	250	75	250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0	Summer Double Crop		0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	26	9	166	80	80	144	58	64	134	36	48	124	250	75	250
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Early Fall: Early spring utilization incl. winter crop in double crop system: Incorporated after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	10,569 gal/A			32,520 gal/A			23,577 gal/A			14,634 gal/A			101,626 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	5,114 gal/A			45,455 gal/A			36,364 gal/A			27,273 gal/A			42,614 gal/A		
	Crop P Removal (lb/A) 9.0			Crop P Removal (lb/A) 80.0			Crop P Removal (lb/A) 64.0			Crop P Removal (lb/A) 48.0			Crop P Removal (lb/A) 75.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	4	-7	156	58	64	134	36	48	124	14	32	114	228	59	240
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)	**4**	**-7**	**156**							**14**	**32**	**114**			
Multiple Application	Multiple Final			Multiple Initial			Multiple			Multiple Final			Multiple Initial		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			5 ton/A			5 ton/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	250	75	250	250	75	250	250	75	250	250	75	250	250	75	250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	228	59	240	206	43	230	184	27	220	162	11	210	140	-5	200
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop: All methods of incorporation			Early Fall: Summer utilization with no cover crop: All methods of incorporation			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	92,683 gal/A			83,740 gal/A			74,797 gal/A			65,854 gal/A			56,911 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	33,523 gal/A			24,432 gal/A			15,341 gal/A			6,250 gal/A			0 gal/A		
	Crop P Removal (lb/A) 59.0			Crop P Removal (lb/A) 43.0			Crop P Removal (lb/A) 27.0			Crop P Removal (lb/A) 11.0			Crop P Removal (lb/A) 0.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	206	43	230	184	27	220	162	11	210	140	-5	200	118	-21	190
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Orchardgrass			Orchardgrass			Orchardgrass			Oats			Oats		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 120			ppm P 120		
P Index Part A Evaluation															
Part A Result															
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Oats			Oats		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			80 bu/A			80 bu/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	250	75	250	250	75	250	250	75	250	64	80	120	64	80	120
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	118	-21	190	96	-37	180	74	-53	170	64	80	120	42	64	110
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	47,967 gal/A			39,024 gal/A			30,081 gal/A			26,016 gal/A			17,073 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	0 gal/A			0 gal/A			0 gal/A			45,455 gal/A			36,364 gal/A		
	Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 0.0			Crop P Removal (lb/A) 80.0			Crop P Removal (lb/A) 64.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	96	-37	180	74	-53	170	52	-69	160	42	64	110	20	48	100
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**52**	**-69**	**160**				**20**	**48**	**100**
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple Final		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Corn Following Soybeans			Corn Following Soybeans			Corn Following Soybeans			Corn Following Soybeans			Corn Following Soybeans		
Crop Group Identification															
Fields	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8			Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8		
Acres	141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement			Option 2 Nitrogen Requirement		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 121			ppm P 121			ppm P 121			ppm P 121			ppm P 121		
P Index Part A Evaluation															
Part A Result															
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (lb/A)	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**	**N**	**P2O5**	**K2O**
	180	72	54	180	72	54	180	72	54	180	72	54	180	72	54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	60	Soybeans, 60 bu/A		0	Soybeans, 60 bu/A		0	Soybeans, 60 bu/A		0	Soybeans, 60 bu/A		0	Soybeans, 60 bu/A	
Net Nutrients Required (lb/A)	120	72	54	98	56	44	76	40	34	54	24	24	32	8	14
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop: All methods of incorporation			Early Fall: Summer utilization with no cover crop: All methods of incorporation			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**	**Total N**	**NH4-N**	**Org. N**
	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)	48,780 gal/A			39,837 gal/A			30,894 gal/A			21,951 gal/A			13,008 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	40,909 gal/A			31,818 gal/A			22,727 gal/A			13,636 gal/A			4,545 gal/A		
	Crop P Removal (lb/A) 72.0			Crop P Removal (lb/A) 56.0			Crop P Removal (lb/A) 40.0			Crop P Removal (lb/A) 24.0			Crop P Removal (lb/A) 8.0		
P Index Value															
Planned Manure Rate (ton or gal/A)	**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**			**9000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	98	56	44	76	40	34	54	24	24	32	8	14	10	-8	4
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)													**10**	**-8**	**4**
Multiple Application	Multiple Initial			Multiple			Multiple			Multiple			Multiple Final		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1		
Field Identification															
Crop Group	Corn			Corn			Corn			Corn			Corn		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 67			ppm P 67			ppm P 67			ppm P 67			ppm P 67		
P Index Part A Evaluation	No to All Part A			No to All Part A			Winter			Winter			No to All Part A		
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	180	72	54	158	56	44	136	40	34	121	29	27	106	18	20
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	**P2O5**	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	73,171 gal/A			64,228 gal/A			55,285 gal/A			49,187 gal/A			43,089 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	40,909 gal/A Crop P Removal (lb/A) 72.0			31,818 gal/A Crop P Removal (lb/A) 56.0			22,727 gal/A Crop P Removal (lb/A) 40.0			16,477 gal/A Crop P Removal (lb/A) 29.0			10,227 gal/A Crop P Removal (lb/A) 18.0		
P Index Value	33			33			33			33			33		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	15	11	7	15	11	7	22	16	10
Nutrient Balance after Manure	158	56	44	136	40	34	121	29	27	106	18	20	84	2	10
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple Initial			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1		
Field Identification															
Crop Group	Corn			Corn			Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 67			ppm P 67			ppm P 67			ppm P 67			ppm P 67		
P Index Part A Evaluation															
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Small Grain Silage			Small Grain Silage		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			7 ton/A			7 ton/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			[22]	Winter Double Crop		[22]	Winter Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	84	2	10	62	-14	0	40	-30	-10	119	49	182	97	33	172
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	34,146 gal/A			25,203 gal/A			16,260 gal/A			48,374 gal/A			39,431 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	1,136 gal/A Crop P Removal (lb/A) 2.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			27,841 gal/A Crop P Removal (lb/A) 49.0			18,750 gal/A Crop P Removal (lb/A) 33.0		
P Index Value	33			33			33			26			26		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	62	-14	0	40	-30	-10	18	-46	-20	97	33	172	75	17	162
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**3**	**-46**	**-20**						
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1		
Field Identification															
Crop Group	Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Orchardgrass		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 67			ppm P 67			ppm P 67			ppm P 67			ppm P 67		
P Index Part A Evaluation	Winter			Winter											
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Small Grain Silage			Small Grain Silage			Corn for Grain			Corn for Grain			Established Orchardgrass		
Planned Yield	7 ton/A			7 ton/A			180 bu/A			180 bu/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	[15]	Winter Double Crop		[15]	Winter Double Crop		74	Summer Double Crop		0	Summer Double Crop		0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	No Previous Year Legume		0	No Previous Year Legume		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	75	17	162	60	6	155	45	-5	148	23	-21	138	250	75	250
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	30,488 gal/A			24,390 gal/A			18,293 gal/A			9,350 gal/A			101,626 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	9,659 gal/A Crop P Removal (lb/A) 17.0			3,409 gal/A Crop P Removal (lb/A) 6.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			42,614 gal/A Crop P Removal (lb/A) 75.0		
P Index Value	26			26			26			26			36		
Planned Manure Rate (ton or gal/A)	**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	15	11	7	15	11	7	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	60	6	155	45	-5	148	23	-21	138	1	-37	128	228	59	240
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)				**45**	**-5**	**148**				**1**	**-37**	**128**			
Multiple Application	Multiple			Multiple Final			Multiple			Multiple Final			Multiple Initial		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1		
Field Identification															
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 67			ppm P 67			ppm P 67			ppm P 67			ppm P 67		
P Index Part A Evaluation				Winter			Winter								
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			5 ton/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	228	59	240	206	43	230	191	32	223	176	21	216	154	5	206
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	92,683 gal/A			83,740 gal/A			77,642 gal/A			71,545 gal/A			62,602 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	33,523 gal/A Crop P Removal (lb/A) 59.0			24,432 gal/A Crop P Removal (lb/A) 43.0			18,182 gal/A Crop P Removal (lb/A) 32.0			11,932 gal/A Crop P Removal (lb/A) 21.0			2,841 gal/A Crop P Removal (lb/A) 5.0		
P Index Value	36			36			36			36			36		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	15	11	7	15	11	7	22	16	10	22	16	10
Nutrient Balance after Manure	206	43	230	191	32	223	176	21	216	154	5	206	132	-11	196
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 2			Wetzell 2		
Field Identification															
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Corn			Corn		
Acres	15.1			15.1			15.1			24.1			24.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 67			ppm P 67			ppm P 67			ppm P 52			ppm P 52		
P Index Part A Evaluation															
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Corn for Grain			Corn for Grain		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	No Previous Year Legume		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	132	-11	196	110	-27	186	88	-43	176	180	72	54	158	56	44
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	53,659 gal/A			44,715 gal/A			35,772 gal/A			73,171 gal/A			64,228 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			40,909 gal/A Crop P Removal (lb/A) 72.0			31,818 gal/A Crop P Removal (lb/A) 56.0		
P Index Value	36			36			36			32			32		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	110	-27	186	88	-43	176	66	-59	166	158	56	44	136	40	34
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**1**	**-59**	**166**						
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2		
Field Identification															
Crop Group	Corn			Corn			Corn			Corn			Corn		
Acres	24.1			24.1			24.1			24.1			24.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 52			ppm P 52			ppm P 52			ppm P 52			ppm P 52		
P Index Part A Evaluation	Winter			Winter											
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	136	40	34	121	29	27	106	18	20	84	2	10	62	-14	0
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	55,285 gal/A			49,187 gal/A			43,089 gal/A			34,146 gal/A			25,203 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	22,727 gal/A Crop P Removal (lb/A) 40.0			16,477 gal/A Crop P Removal (lb/A) 29.0			10,227 gal/A Crop P Removal (lb/A) 18.0			1,136 gal/A Crop P Removal (lb/A) 2.0			0 gal/A Crop P Removal (lb/A) 0.0		
P Index Value	32			32			32			32			32		
Planned Manure Rate (ton or gal/A)	**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	15	11	7	15	11	7	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	121	29	27	106	18	20	84	2	10	62	-14	0	40	-30	-10
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2		
Field Identification															
Crop Group	Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn		
Acres	24.1			24.1			24.1			24.1			24.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 52			ppm P 52			ppm P 52			ppm P 52			ppm P 52		
P Index Part A Evaluation										Winter			Winter		
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Small Grain Silage			Small Grain Silage			Small Grain Silage			Small Grain Silage		
Planned Yield	180 bu/A			7 ton/A			7 ton/A			7 ton/A			7 ton/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			[22]	Winter Double Crop		[22]	Winter Double Crop		[15]	Winter Double Crop		[15]	Winter Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	40	-30	-10	119	49	182	97	33	172	75	17	162	60	6	155
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered		
N Balanced Manure Rate (ton; gal/A)	16,260 gal/A			48,374 gal/A			39,431 gal/A			30,488 gal/A			24,390 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	0 gal/A Crop P Removal (lb/A) 0.0			68,750 gal/A Crop P Removal (lb/A) 121.0			59,659 gal/A Crop P Removal (lb/A) 105.0			50,568 gal/A Crop P Removal (lb/A) 89.0			44,318 gal/A Crop P Removal (lb/A) 78.0		
P Index Value	32			32			32			32			32		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	15	11	7	15	11	7
Nutrient Balance after Manure	18	-46	-20	97	33	172	75	17	162	60	6	155	45	-5	148
Supplemental Fertilizer (lb/A)	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)	**3**	**-46**	**-20**										**45**	**-5**	**148**
Multiple Application	Multiple Final			Multiple Initial			Multiple			Multiple			Multiple Final		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2		
Field Identification															
Crop Group	Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Orchardgrass		
Acres	24.1			24.1			24.1			24.1			24.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 52			ppm P 52			ppm P 52			ppm P 52			ppm P 52		
P Index Part A Evaluation															
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Established Orchardgrass		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	74	Summer Double Crop		74	Summer Double Crop		74	Summer Double Crop		0	Summer Double Crop		0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	106	67	202	84	51	192	62	35	182	40	19	172	250	75	250
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	43,089 gal/A			34,146 gal/A			25,203 gal/A			16,260 gal/A			101,626 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	38,068 gal/A Crop P Removal (lb/A) 67.0			28,977 gal/A Crop P Removal (lb/A) 51.0			19,886 gal/A Crop P Removal (lb/A) 35.0			10,795 gal/A Crop P Removal (lb/A) 19.0			42,614 gal/A Crop P Removal (lb/A) 75.0		
P Index Value	32			32			32			32			35		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	84	51	192	62	35	182	40	19	172	18	3	162	228	59	240
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)										**3**	**3**	**162**			
Multiple Application	Multiple Initial			Multiple			Multiple			Multiple Final			Multiple Initial		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2		
Field Identification															
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass		
Acres	24.1			24.1			24.1			24.1			24.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 52			ppm P 52			ppm P 52			ppm P 52			ppm P 52		
P Index Part A Evaluation				Winter			Winter								
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			5 ton/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	228	59	240	206	43	230	191	32	223	176	21	216	154	5	206
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	92,683 gal/A			83,740 gal/A			77,642 gal/A			71,545 gal/A			62,602 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	33,523 gal/A Crop P Removal (lb/A) 59.0			24,432 gal/A Crop P Removal (lb/A) 43.0			18,182 gal/A Crop P Removal (lb/A) 32.0			11,932 gal/A Crop P Removal (lb/A) 21.0			2,841 gal/A Crop P Removal (lb/A) 5.0		
P Index Value	35			35			35			35			35		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	15	11	7	15	11	7	22	16	10	22	16	10
Nutrient Balance after Manure	206	43	230	191	32	223	176	21	216	154	5	206	132	-11	196
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Wetzell 2			Wetzell 2			Wetzell 2			Maguire 2, 3,4			Maguire 2, 3,4		
Field Identification															
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Corn			Corn		
Acres	24.1			24.1			24.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 52			ppm P 52			ppm P 52			ppm P 55			ppm P 55		
P Index Part A Evaluation															
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Corn for Grain			Corn for Grain		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		60	Soybeans, 60 bu/A		0	No Previous Year Legume	
Net Nutrients Required (lb/A)	132	-11	196	110	-27	186	88	-43	176	120	72	54	98	56	44
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	53,659 gal/A			44,715 gal/A			35,772 gal/A			48,780 gal/A			39,837 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			40,909 gal/A Crop P Removal (lb/A) 72.0			31,818 gal/A Crop P Removal (lb/A) 56.0		
P Index Value	35			35			35			25			25		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	110	-27	186	88	-43	176	66	-59	166	98	56	44	76	40	34
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**1**	**-59**	**166**						
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4		
Field Identification															
Crop Group	Corn			Corn			Corn			Corn			Small Grain Silage Double Crop Corn		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 55			ppm P 55			ppm P 55			ppm P 55			ppm P 55		
P Index Part A Evaluation	Winter			Winter											
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Corn for Grain			Corn for Grain			Corn for Grain			Corn for Grain			Small Grain Silage		
Planned Yield	180 bu/A			180 bu/A			180 bu/A			180 bu/A			7 ton/A		
Crop Removal Recommendations (LB/A)	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54	**N** 119	**P2O5** 49	**K2O** 182
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			[22]	Winter Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	No Previous Year Legume		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	76	40	34	61	29	27	46	18	20	24	2	10	119	49	182
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Summer: Summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	30,894 gal/A			24,797 gal/A			18,699 gal/A			9,756 gal/A			48,374 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	22,727 gal/A			16,477 gal/A			10,227 gal/A			1,136 gal/A			68,750 gal/A		
	Crop P Removal (lb/A) 40.0			Crop P Removal (lb/A) 29.0			Crop P Removal (lb/A) 18.0			Crop P Removal (lb/A) 2.0			Crop P Removal (lb/A) 121.0		
P Index Value	25			25			25			25			25		
Planned Manure Rate (ton or gal/A)	**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	15	11	7	15	11	7	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	61	29	27	46	18	20	24	2	10	2	-14	0	97	33	172
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)										**2**	**-14**	**0**			
Multiple Application	Multiple			Multiple			Multiple			Multiple Final			Multiple Initial		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4		
Field Identification															
Crop Group	Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn			Small Grain Silage Double Crop Corn		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 55			ppm P 55			ppm P 55			ppm P 55			ppm P 55		
P Index Part A Evaluation				Winter			Winter								
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Small Grain Silage			Small Grain Silage			Small Grain Silage			Corn for Grain			Corn for Grain		
Planned Yield	7 ton/A			7 ton/A			7 ton/A			180 bu/A			180 bu/A		
Crop Removal Recommendations (LB/A)	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182	**N** 119	**P2O5** 49	**K2O** 182	**N** 180	**P2O5** 72	**K2O** 54	**N** 180	**P2O5** 72	**K2O** 54
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	[22]	Winter Double Crop		[15]	Winter Double Crop		[15]	Winter Double Crop		74	Summer Double Crop		0	Summer Double Crop	
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		60	Soybeans, 60 bu/A		0	Soybeans, 60 bu/A	
Net Nutrients Required (lb/A)	97	33	172	75	17	162	60	6	155	46	67	202	24	51	192
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	39,431 gal/A			30,488 gal/A			24,390 gal/A			18,699 gal/A			9,756 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	59,659 gal/A Crop P Removal (lb/A) 105.0			50,568 gal/A Crop P Removal (lb/A) 89.0			44,318 gal/A Crop P Removal (lb/A) 78.0			38,068 gal/A Crop P Removal (lb/A) 67.0			28,977 gal/A Crop P Removal (lb/A) 51.0		
P Index Value	25			25			25			25			25		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	15	11	7	15	11	7	22	16	10	22	16	10
Nutrient Balance after Manure	75	17	162	60	6	155	45	-5	148	24	51	192	2	35	182
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)							**45**	**-5**	**148**				**2**	**35**	**182**
Multiple Application	Multiple			Multiple			Multiple Final			Multiple Initial			Multiple Final		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4		
Field Identification															
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass		
Acres	15.1			15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 55			ppm P 55			ppm P 55			ppm P 55			ppm P 55		
P Index Part A Evaluation							Winter			Winter					
Part A Result	Part B			Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			5 ton/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)															
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	250	75	250	228	59	240	206	43	230	191	32	223	176	21	216
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content (lbs/ton or 1000 gal)	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12	**N** 12.30	P2O5 1.76	**K20** 1.12
Application Season: Management (Incorporation, cover crops, etc.)	Summer: Summer utilization-Incorporation after 7 days or none			Early Fall: Summer utilization with no cover crop: All methods of incorporation			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Winter: Summer Utilization. Single crop corn or annuals-No cover crop			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			Surface app. when frozen/snow covered			Surface app. when frozen/snow covered			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	101,626 gal/A			92,683 gal/A			83,740 gal/A			77,642 gal/A			71,545 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	42,614 gal/A Crop P Removal (lb/A) 75.0			33,523 gal/A Crop P Removal (lb/A) 59.0			24,432 gal/A Crop P Removal (lb/A) 43.0			18,182 gal/A Crop P Removal (lb/A) 32.0			11,932 gal/A Crop P Removal (lb/A) 21.0		
P Index Value	35			35			35			35			35		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**6,200 gal/A**			**6,200 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	15	11	7	15	11	7	22	16	10
Nutrient Balance after Manure	228	59	240	206	43	230	191	32	223	176	21	216	154	5	206
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P Index Application Method															
Final Nutrient Balance (lb/A)															
Multiple Application	Multiple Initial			Multiple			Multiple			Multiple			Multiple		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Option 3 P Index Nutrient Balance Sheets	Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4			Maguire 2, 3,4		
Field Identification												
Crop Group	Orchardgrass			Orchardgrass			Orchardgrass			Orchardgrass		
Acres	15.1			15.1			15.1			15.1		
NBS Option	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	ppm P 55			ppm P 55			ppm P 55			ppm P 55		
P Index Part A Evaluation												
Part A Result	Part B			Part B			Part B			Part B		
Crop	Established Orchardgrass			Established Orchardgrass			Established Orchardgrass			Established Orchardgrass		
Planned Yield	5 ton/A			5 ton/A			5 ton/A			5 ton/A		
Crop Removal Recommendations (LB/A)	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250	**N** 250	**P2O5** 75	**K2O** 250
Soil Test Recommendation (lb/A)												
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)												
P Index Application Method												
Double Crop Carry Over N (lb/A)	0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop		0	Rarely - Summer Crop	
Legume History Description Residual Legume N (lb/A)	0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop		0	Legume N credit does not apply to this crop	
Net Nutrients Required (lb/A)	154	5	206	132	-11	196	110	-27	186	88	-43	176
Manure Group	Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Meat FPR		
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**	**N**	P2O5	**K20**
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)	Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none			Spring: Spring or summer utilization-Incorporation after 7 days or none		
Availability Factors (Total N or NH4-N & Organic N)	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**	**Total N** 0.20	**NH4-N**	**Org. N**
P Index Application Method	April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.			April - Oct: No incorp or incorp > 1 wk.		
N Balanced Manure Rate (ton; gal/A)	62,602 gal/A			53,659 gal/A			44,715 gal/A			35,772 gal/A		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	2,841 gal/A Crop P Removal (lb/A) 5.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0			0 gal/A Crop P Removal (lb/A) 0.0		
P Index Value	35			35			35			35		
Planned Manure Rate (ton or gal/A)	**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**			**9,000 gal/A**		
Nutrients Applied at Planned Manure Rate (lb/A)	22	16	10	22	16	10	22	16	10	22	16	10
Nutrient Balance after Manure	132	-11	196	110	-27	186	88	-43	176	66	-59	166
Supplemental Fertilizer (lb/A)	0	0	0	0	0	0	0	0	0	65	0	0
P Index Application Method												
Final Nutrient Balance (lb/A)										**1**	**-59**	**166**
Multiple Application	Multiple			Multiple			Multiple			Multiple Final		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs		

Phosphorus Index
Populated from NBS Input P Index sheet

Go to NBS P Index Input Go to NBS Index

Pennsylvania P Index Version 2

PART A: SCREENING TOOL CMU/Field ID		PART A: SCREENING TOOL	CMU/Field ID	Wetzell 1 - Corn
Is the CMU in a Special Protection watershed?		Is the CMU in a Special Protection watershed?	If the answer is Yes to any of these questions, Part B must be used.	**No**
A significant farm management change as defined by Act 38?		Is there a significant farm management change as defined by Act 38?		**No**
Soil Test Mehlich 3 P greater than 200 ppm P?		Is the Soil Test Mehlich 3 P greater than 200 ppm P? (enter soil test value in ppm P)		**67**
Contributing Distance from CMU to receiving water <150 ft.?		Is the Contributing Distance from this CMU to receiving water less than 150 ft.?		**No**
Is winter manure application planned for this field ?		Is winter manure application planned for this field ?		**Yes**
Run P Index Part B voluntarily? (No to all Part A questions.)		Run P Index Part B voluntarily? (Answers are No to all Part A questions.)		**No**
PART B: SOURCE FACTORS: Mehlich 3 Soil Test P (ppm P)	Mehlich 3 Soil Test P (ppm P)			67
Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)				13
FERTILIZER P APPLIED REGARDLESS OF MANURE (Starter or other)			Fertilizer P (lb P2O5/acre)	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF FERTILIZER P APPLIED REGARGLESS OF MANURE[3]	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil	-, -, -, -, -, -
SUPPLEMENTAL P FERTILIZER				Fertilizer P (lb P2O5/acre)	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF SUPPLEMENTAL P FERTILIZER[3]	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil	-, -, -, -, -, -
Fertilizer Rating = Fertilizer Rate x Fertilizer Application Method						0
MANURE P RATE				Manure P (lb P2O5/acre)	16, 16, 11, 11, 16, 16
MANURE APPLICATION METHOD[3]	0.2 Placed or injected 2" or more deep	0.4 Incorporated <1 week following application	0.6 Incorporated > 1 week or not incorporated following application in April - October	0.8 Incorporated >1 week or not incorporated following application in Nov. - March	1.0 Surface applied to frozen or snow covered soil	0.6, 0.6, 1, 1, 0.6, 0.6
P SOURCE COEFFICIENT[3]	Refer to: Test results for P Source Coefficient OR Book values from P Index Fact Sheet Table 1					0.8, 0.8, 0.8, 0.8, 0.8, 0.8
Manure Rating = Manure Rate x Manure Application Method x P Source Coefficient						66
Source Factor Sum						79
PART B: TRANSPORT FACTORS EROSION	Soil Loss (ton/acre/yr)					1
RUNOFF POTENTIAL	0 *Drainage Class is* Excessively	2 *Drainage Class is* Somewhat Excessively	4 *Drainage Class is* Well/Moderately Well	6 *Drainage Class is* Somewhat Poorly	8 *Drainage Class is* Poorly/Very Poorly	4
SUBSURFACE DRAINAGE	0 None		1 Random		2[1] Patterned	0
CONTRIBUTING DISTANCE	0 > 500 ft.	2 350 to 500 ft.	4 200 to 349 ft.	6 100 to 199 ft. OR < 100 ft. with 35 ft. buffer	9[2] < 100 ft.	0
Transport Sum = Erosion + Runoff Potential + Subsurface Drainage + Contributing Distance						5
MODIFIED CONNECTIVITY	0.85 50 ft. Riparian Buffer APPLIES TO DIST < 100 FT		1.0 Grassed Waterway or None	1.1 Direct Connection APPLIES TO DIST > 100 FT		1.0
Transport Sum x Modified Connectivity / 24						0.21
P Index Value = 2 x Source x Transport						**33**

Low: 59 or less
Nitrogen based management

Medium: 60 to 79
Nitrogen based management

High: 80 to 99
Phosphorus limited to crop removal

Very High: 100 or greater
No Phosphorus applied

Phosphorus Index
Populated from NBS Input P Index sheet

PART A: SCREENING TOOL CMU/Field ID	Wetzell 1 - Small Grain Silage Double Crop Corn	Wetzell 1 - Orchardgrass	Wetzell 2 - Corn	Wetzell 2 - Small Grain Silage Double Crop Corn	Wetzell 2 - Orchardgrass	Maguire 2, 3,4 - Corn	Maguire 2, 3,4 - Small Grain Silage Double Crop Corn
Is the CMU in a Special Protection watershed?	**No**	**No**	**No**	**No**	**No**	**No**	**No**
A significant farm management change as defined by Act 38?	**No**	**No**	**No**	**No**	**No**	**No**	**No**
Soil Test Mehlich 3 P greater than 200 ppm P?	**67**	**67**	**52**	**52**	**52**	**55**	**55**
Contributing Distance from CMU to receiving water <150 ft.?	**No**	**No**	**No**	**No**	**No**	**No**	**No**
Is winter manure application planned for this field ?	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Run P Index Part B voluntarily? (No to all Part A questions.)	**No**	**No**	**No**	**No**	**No**	**No**	**No**
PART B: SOURCE FACTORS: Mehlich 3 Soil Test P (ppm P)	67	67	52	52	52	55	55
Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)	13	13	10	10	10	11	11
FERTILIZER P APPLIED REGARDLESS OF MANURE (Starter or other)	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF FERTILIZER P APPLIED REGARGLESS OF MANURE[3]	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -
SUPPLEMENTAL P FERTILIZER	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF SUPPLEMENTAL P FERTILIZER[3]	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -	-, -, -, -, -, -
Fertilizer Rating = Fertilizer Rate x Fertilizer Application Me	0	0	0	0	0	0	0
MANURE P RATE	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16	16, 16, 11, 11, 16, 16
MANURE APPLICATION METHOD[3]	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6	0.6, 0.6, 1, 1, 0.6, 0.6
P SOURCE COEFFICIENT[3]	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8	0.8, 0.8, 0.8, 0.8, 0.8, 0.8
Manure Rating = Manure Rate x Manure Application Metho	50	74	66	66	74	50	50
Source Factor Sum	63	87	76	76	84	61	61
PART B: TRANSPORT FACTORS EROSION	1	1	1	1	1	1	1
RUNOFF POTENTIAL	4	4	4	4	4	4	4
SUBSURFACE DRAINAGE	0	0	0	0	0	0	0
CONTRIBUTING DISTANCE	0	0	0	0	0	0	0
Transport Sum = Erosion + Runoff Potential + Subsurface	5	5	5	5	5	5	5
MODIFIED CONNECTIVITY	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Transport Sum x Modified Connectivity / 24	0.21	0.21	0.21	0.21	0.21	0.21	0.21
P Index Value = 2 x Source x Transport	**26**	**36**	**32**	**32**	**35**	**25**	**25**

Low: 59 or less
Nitrogen based management

Phosphorus Index
Populated from NBS Input P Index sheet

PART A: SCREENING TOOL CMU/Field ID	Maguire 2, 3,4 - Orchardgrass
Is the CMU in a Special Protection watershed?	**No**
A significant farm management change as defined by Act 38?	**No**
Soil Test Mehlich 3 P greater than 200 ppm P?	**55**
Contributing Distance from CMU to receiving water <150 ft.?	**No**
Is winter manure application planned for this field ?	**Yes**
Run P Index Part B voluntarily? (No to all Part A questions.)	**No**
PART B: SOURCE FACTORS: Mehlich 3 Soil Test P (ppm P)	55
Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)	11
FERTILIZER P APPLIED REGARDLESS OF MANURE (Starter or other)	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF FERTILIZER P APPLIED REGARGLESS OF MANURE[3]	-, -, -, -, -, -
SUPPLEMENTAL P FERTILIZER	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF SUPPLEMENTAL P FERTILIZER[3]	-, -, -, -, -, -
Fertilizer Rating = Fertilizer Rate x Fertilizer Application Me	0
MANURE P RATE	16, 16, 11, 11, 16, 16
MANURE APPLICATION METHOD[3]	0.6, 0.6, 1, 1, 0.6, 0.6
P SOURCE COEFFICIENT[3]	0.8, 0.8, 0.8, 0.8, 0.8, 0.8
Manure Rating = Manure Rate x Manure Application Metho	74
Source Factor Sum	85
PART B: TRANSPORT FACTORS EROSION	1
RUNOFF POTENTIAL	4
SUBSURFACE DRAINAGE	0
CONTRIBUTING DISTANCE	0
Transport Sum = Erosion + Runoff Potential + Subsurface	5
MODIFIED CONNECTIVITY	1.0
Transport Sum x Modified Connectivity / 24	0.21
P Index Value = 2 x Source x Transport	**35**

Low: 59 or less
Nitrogen based management

PA Technical Manual Supplement 10: Winter Manure Application Matrix

Populated from NBS Input P Index Sheet

Go to NBS Index

User Notes for the Winter Manure Application Matrix

1. Under Act 38, any one of the following conditions meets the "winter" definition - see §83.201.
   - December 15 to February 28
   - Frozen ground (4 inch depth)
   - Snow-covered ground
2. All setbacks including those specific to winter manure application must be followed - see §83.294 (f) and (g).
   - No winter manure application within 100 ft. of an above ground agricultural drainage inlet where surface flow is toward the inlet.
   - No winter manure application within 100 ft. of a wetland (identified on National Wetland Inventory Maps) within the 100 year floodplain of an Exceptional Value stream segment if surface flow is toward the wetland.
3. Fields receiving winter manure applications must have 25% cover or an established cover crop - see §83.294 (g).

Go to NBS P Index Input

Verify the CMU meets the required cover conditions described in User Note 3.

	CMU/Field ID	Wetzell 1 - Corn	Wetzell 1 - Small Grain Silage Double Crop Corn
Does the CMU have 25% cover or an established cover crop?	Does the CMU have 25% cover or an established cover crop?	Yes	Yes

Evaluation Criteria	**Evaluation Criteria Descriptions and Ranking Values**					
	4	3	2[b]	1[c]		
Field Slope	< 4 %	4 - 8%	9 - 15%	> 15%	4	4
Distance from Water Bodies[a] Determined using Phosphorus Index Contributing Distance	> 350 ft.	350 - 200 ft	199 - 100 ft	<100 ft	4	4
Drainage Class Determined using Phosphorus Index Runoff Potential	Somewhat Excessively OR Excessively	Well OR Moderately Well	Somewhat Poorly	Poorly OR Very Poorly	3	3
Runoff Control	Recommended conservation practices are in place. **Very low potential for concentrated flow.**	Some conservation practices are in place. **Low potential for concentrated flow.**	Some conservation practices are in place. **Moderate potential for concentrated flow.**	No conservation practices are in place. **High potential for concentrated flow.**	3	3
					14	14
					Good	Good

[a] Includes Perennial and Intermittent streams with defined bed and bank, Lakes, Ponds, Open sinkholes, and Active private and public water sources.

[b] If a field receives a rating of "2" in any two categories the field is not recommended for winter application regardless of the final field Ranking Value.

[c] If a field receives a rating of "1" in any one category the field is not recommended for winter application regardless of the final field Ranking Value.

Recommended Winter Manure Application Prioritization		
Ranking Value - Category	*Ranking Category*	*Recommendation for Winter Manure Spreading Prioritization*
Greater than 12 - Good	Good	These fields should receive first priority for winter manure application.
8 to 12 - Fair	Fair	These fields should receive second priority for winter manure application.
Less than 8 - Poor	Poor	These fields are not recommended for winter manure application.

PA Technical Manual Supplement 10: Winter Manure Application Matrix

User Notes for the Winter Manure Application Matrix

1. Under Act 38, any one of the following conditions me
   - December 15 to February 28
   - Frozen ground (4 inch depth)
   - Snow-covered ground
2. All setbacks including those specific to winter manure
   - No winter manure application within 100 ft. of an abo
   - No winter manure application within 100 ft. of a wetl
   Exceptional Value stream segment if surface flow is to
3. Fields receiving winter manure applications must hav

Verify the CMU meets the required cover conditions described in User Note 3.

	Wetzell 1 - Orchardgrass	Wetzell 2 - Corn	Wetzell 2 - Small Grain Silage Double Crop Corn	Wetzell 2 - Orchardgrass	Maguire 2, 3,4 - Corn	Maguire 2, 3,4 - Small Grain Silage Double Crop Corn
Does the CMU have 25% cover or an established cover crop?	Yes	Yes	Yes	Yes	Yes	Yes
Evaluation Criteria						
Field Slope	4	4	4	4	4	4
Distance from Water Bodies[a] Determined using Phosphorus Index Contributing Distance	4	4	4	4	4	4
Drainage Class Determined using Phosphorus Index Runoff Potential	3	3	3	3	3	3
Runoff Control	3	3	3	3	3	3
	14	14	14	14	14	14
	Good	Good	Good	Good	Good	Good

[a] Includes Perennial and Intermittent streams with defined bed and b
[b] If a field receives a rating of "2" in any two categories the field is no
[c] If a field receives a rating of "1" in any one category the field is not

Recommended Winter Manure Application Prioritization
Ranking Value - Category
Greater than 12 - Good
8 to 12 - Fair
Less than 8 - Poor

PA Technical Manual Supplement 10: Winter Manure Application Matrix

User Notes for the Winter Manure Application Matrix

1. Under Act 38, any one of the following conditions me
   - December 15 to February 28
   - Frozen ground (4 inch depth)
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   - No winter manure application within 100 ft. of a wetl
     Exceptional Value stream segment if surface flow is t
3. Fields receiving winter manure applications must hav

Verify the CMU meets the required cover conditions described in User Note 3.

	Maguire 2, 3,4 - Orchardgrass
Does the CMU have 25% cover or an established cover crop?	Yes
Evaluation Criteria	
Field Slope	4
Distance from Water Bodies[a] Determined using Phosphorus Index Contributing Distance	4
Drainage Class Determined using Phosphorus Index Runoff Potential	3
Runoff Control	3
[a] Includes Perennial and Intermittent streams with defined bed and b	14
[b] If a field receives a rating of "2" in any two categories the field is no	Good
[c] If a field receives a rating of "1" in any one category the field is not	

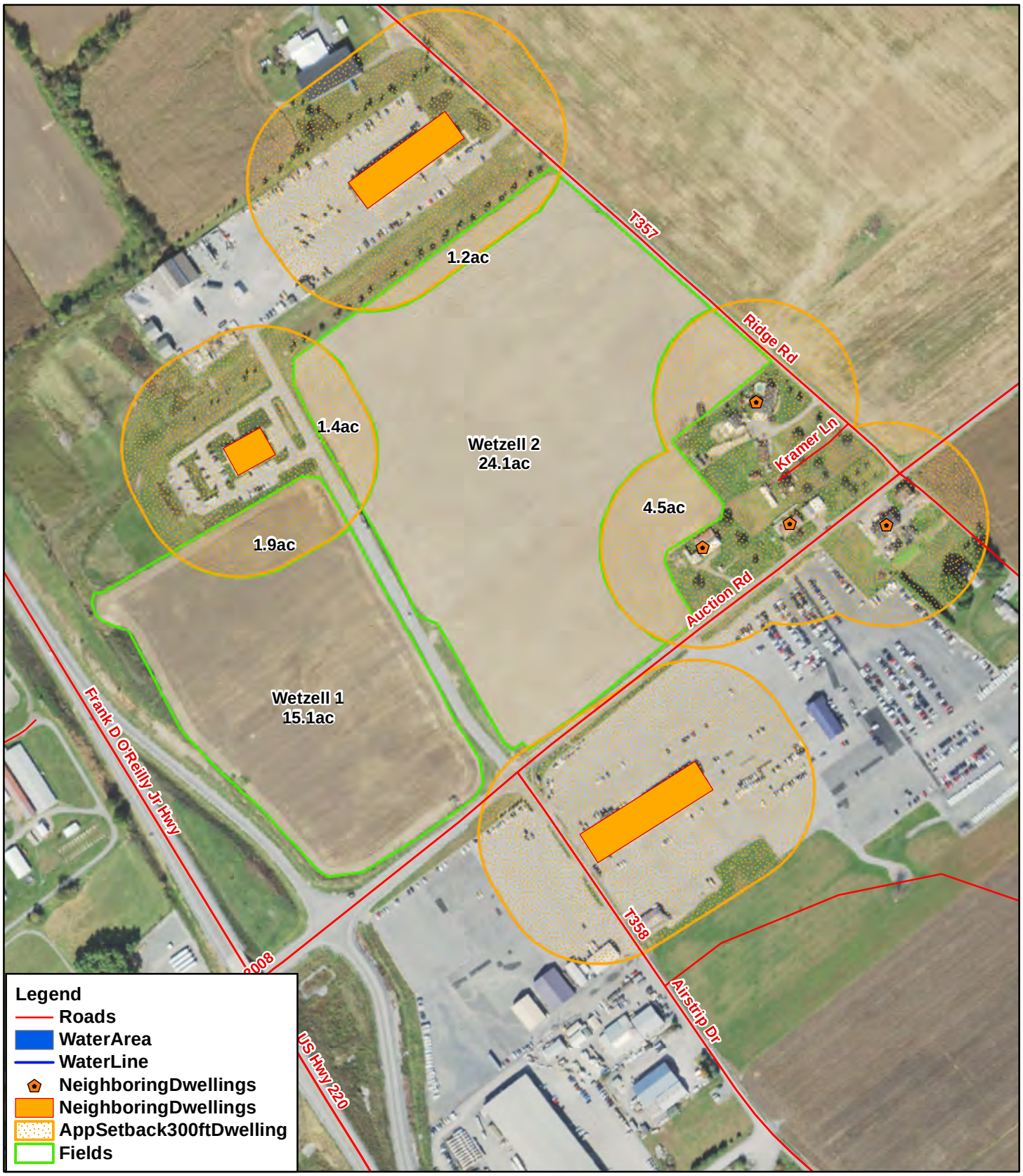
Recommended Winter Manure Application Prioritization
Ranking Value - Category
Greater than 12 - Good
8 to 12 - Fair
Less than 8 - Poor

Appendix 1

Operation Maps

Maps (or aerial photographs) required in Nutrient Balance Sheets must identify: road and road names adjacent to and within the operation; field identification, boundaries and acreage; manure application setback areas and vegetated buffers and associated landscape features (streams and other water bodies, sinkholes, and active water wells or springs); and location of in-field manure stacking areas (including each site in stacking area rotation).

Nicholas Meat, LLC FPR
Importer Steve Dunkle Map

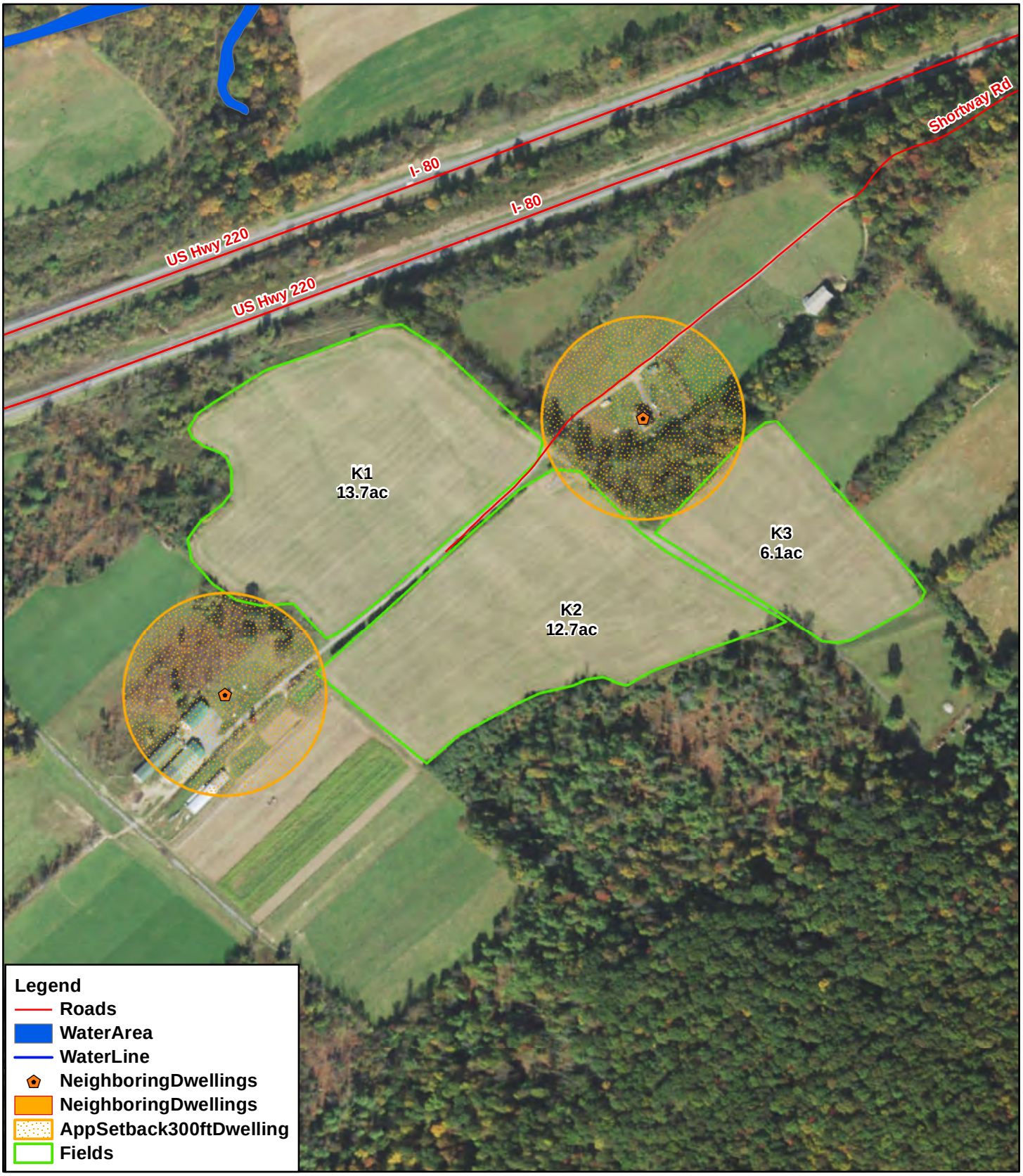


TeamAg Incorporated

0 200 400 800 1,200 Feet

N W E S

Nicholas Meat, LLC FPR
Importer Steve Dunkle Map



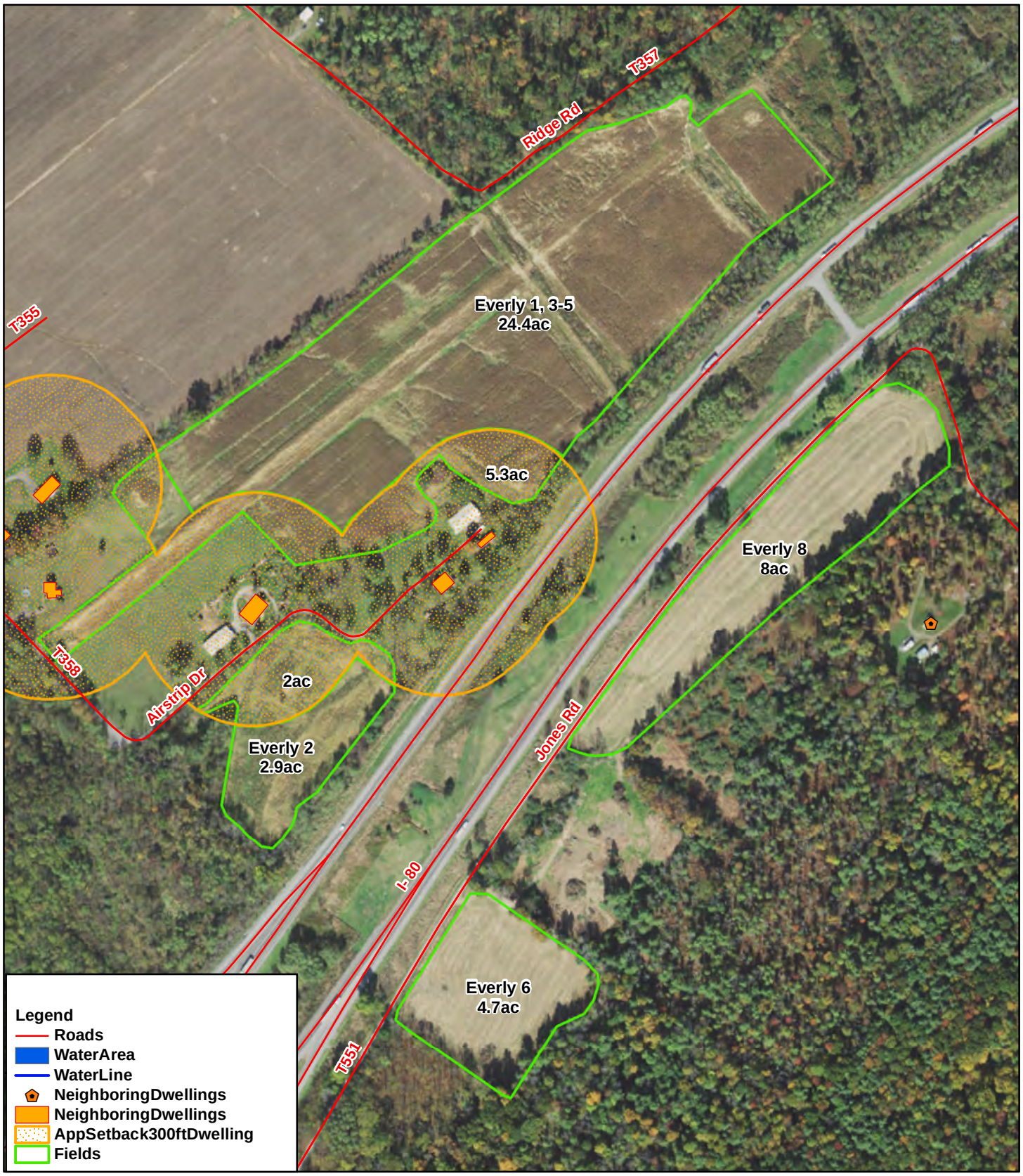
Nicholas Meat, LLC FPR
Importer Steve Dunkle Map

TeamAg Incorporated

0 187.5 375 750 1,125 Feet

N W E S

Nicholas Meat, LLC FPR
Importer Steve Dunkle Map



TeamAg Incorporated

0 200 400 800 1,200 Feet

N W E S