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

Con H. Dane

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:

- 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



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): <u>Clinton County, Green Twp., 508 East Valley Road Loganton, PA 17747</u>
- 4) The <u>exporter</u> 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 <u>importer's</u> 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	
(9) E.N~	(signature)	Style Dentle	(signature)
Dong Nicholas	(name)	STEPHEN DUNKLE	(name)
1/15/21	(date)	01/14/21	(date)

Nutrient Balance Sheet Summary

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n: 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.

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
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	М	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	М	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	М	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	М	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	М	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	М	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	М	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

											arter/Oth tilizer (Ib			ppleme tilizer (l		Nut	rient Bal (lb/A) ²	ance
Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K₂O
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	М	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	М	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	М	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	М	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 Orchardgras s	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 Orchardgras s	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	М	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgras s	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	М	9000	Gal/A									
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgras s	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K₂O
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgras s	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									
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Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	141.7	Established Orchardgras s	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	М	9000	Gal/A									
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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	М	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	М	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	М	6200	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K ₂ O
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	М	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	М	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	М	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	М	9000	Gal/A									
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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	М	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 Orchardgras s	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 Orchardgras s	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s		Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s		Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K ₂ O
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s	Nicholas Meat FPR	Spring	Spring: Spring or summer utilization-Incorporation after 7 days or none	М	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals- No cover crop	М	6200	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s	Nicholas Meat FPR	Winter	Winter: Summer Utilization. Single crop corn or annuals- No cover crop	М	6200	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s	Nicholas Meat FPR	Early Fall	Early Fall: Summer utilization with no cover crop: All methods of incorporation	М	9000	Gal/A									
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	54.3	Established Orchardgras s	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	М	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	М	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	М	9000	Gal/A									
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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	М	9000	Gal/A									

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Crop Group	Fields	Acres	Crop	Manure Group	Application Season	Application Management	Multiple Designation	Planned	Manure Rate ¹	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K₂O	N	P ₂ O ₅	K ₂ O
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	М	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	М	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

See Nutrient Management Plan Summary Notes
 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

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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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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.
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Small Grain Silage	Nicholas Meat FPR	K2O are based on Crop	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.

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
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.
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 P205 and K2O are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland
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 P205 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.
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	K2O are based on Crop	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.
Small Grain Silage Double Crop Corn	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	K2O are based on Crop	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.
Small Grain Silage Double Crop 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.
Small Grain Silage Double Crop 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.
Wheat	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Wheat	Nicholas Meat FPR	K2O are based on Crop	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	K2O are based on Crop	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	·
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Established Orchardgrass	Nicholas Meat FPR	Nutrient Balances for P205 and K20 are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Established Orchardgrass	Nicholas Meat FPR	Nutrient Balances for P205 and K20 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.
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Established Orchardgrass	Nicholas Meat FPR	Nutrient Balances for P205 and K20 are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
Orchardgrass	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Established Orchardgrass	Nicholas Meat FPR	K2O are based on Crop	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.
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
Oats	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Oats	Nicholas Meat FPR	K2O are based on Crop	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	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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,

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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.
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.
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	Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or exceptional value wetland,
Corn Following Soybeans	Wetzell1-2, K1-3, Maguire 1-5, Everly 1-6 & 8	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P205 and K20 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	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	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
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	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
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	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
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	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
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	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
Corn	Maguire 2, 3,4	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P205 and K20 are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	same. Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
Corn	Wetzell 1,Wetzell 2	Corn for Grain	Nicholas Meat FPR	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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	K2O are based on Crop	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.

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
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.
Orchardgrass	Maguire 2, 3,4,Wetzell 1,Wetzell 2	Established Orchardgrass	Nicholas Meat FPR	K2O are based on Crop	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.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.

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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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained.
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	exceptional value wetland, 300ft from a water sources and occupied dwellings unless a waiver is obtained. This field
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.

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
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.
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	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 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	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 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 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 to third of the field has a field slope of 3% or less, the remaining part of the field is restricted from winter application.
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	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 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same
Small Grain Silage Double Crop Corn	Maguire 2, 3,4,Wetzell 2	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 2: Spring, Summer, and Early Fall can be substituted for one another since the N- availability is the same
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	·
Small Grain Silage Double Crop Corn	Wetzell 1	Corn for Grain	Nicholas Meat FPR	Nutrient Balances for P205 and K20 are based on Crop Removal and SHOULD NOT be used to determine additional fertilizer needs	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.
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.

Crop Group	Fields	Crop	Manure Group	Nutrient Balance Notes	Notes
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.
Small Grain Silage Double Crop Corn	Wetzell 1	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.
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.
Small Grain Silage Double Crop Corn	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	Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
Small Grain Silage Double Crop Corn	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	Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
Small Grain Silage Double Crop Corn	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	Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or
Small Grain Silage Double Crop Corn	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	Application Set Backs are as follows- 100ft from surface water, stream, lake or pond, 100ft from sinkhole or

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets		Corn			Corn			Corn			Corn			Corn	
Crop Group Identification															
Fields		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	-		-2, K1-3, Maç Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement
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		1			ļ			1						ļ	
Part A Result															
Crop	(Corn for Grai	n	(Corn for Gra	in		Corn for Grain	n		Corn for Grai	n		Corn for Gra	n
Planned Yield		180	bu/A		180	bu/A		180	bu/A		180	bu/A		180	bu/A
	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20
Crop Removal Recommendations (lb/A)	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 - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	ımmer Crop
Legume History Description Residual Legume N (lb/A)	0		ious Year ume	0		ious Year jume	0	No Previ Leg		0		ous Year ume	0		ious Year ume
Net Nutrients Required (lb/A)	180	72	54	158	56	44	136	40	34	114	24	24	92	8	14
Manure Group	Nicholas Me	at FPR					Nicholas Meat FPR			Nicholas Me	at FPR	,	Nicholas Me	,	
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.)		r: Summer u ion after 7 da			r: Summer u ion after 7 da		Summer: Summer utilization- Incorporation after 7 days or nor			cover crop	Summer util used as gre ed after 7 da	en manure:	cover crop	Summer util used as gre ted after 7 da	en manure:
Availability Factors	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
(Total N or NH4-N & Organic 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)	Crop P Re	40,909 emoval (lb/A)	•	Crop P Re	31,818 emoval (lb/A)	•	Crop P R	22,727 emoval (lb/A)		Crop P Re	13,636 emoval (lb/A)		Crop P Re	4,545 emoval (lb/A)	gal/A 8.0
P Index Value	<u> </u>	, ,		<u> </u>			<u> </u>	, ,		<u> </u>	, ,		·	. ,	
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		I	I	T	ı	ı	t Ť	ı	ı	T	ı	I		ı	
Final Nutrient Balance (lb/A)															
Multiple Application		I Multiple Initia	l		Multiple	1	<u> </u>	Multiple	I		Multiple	l		Multiple	1
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O I are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			O Nutrient Balances for P2O5 and K2O are based on Crop Removal and		oval and to determine

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets Crop Group Identification	-	Corn			Corn			Corn		Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn
Fields		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	-		l-2, K1-3, Maç Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &	-		-2, K1-3, Ma Everly 1-6 &	
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement
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								1							
Part A Result															
Crop	1	Corn for Grai	n	(Corn for Gra			Corn for Grain		Sr	nall Grain Sila	age	Sn	nall Grain Sil	age
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)	100	72	34	100	12	34	100	12	34	119	43	102	119	43	102
P Index Application Method															
Double Crop Carry Over N (lb/A)	0			0			0			[22]		ouble Crop	[22]	Winter De	ouble Crop
Manure History Description Residual Manure N (lb/A)	0 Rarely - Summer Crop			0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop	0		inter Double rop	0		inter Double rop
Legume History Description Residual Legume N (lb/A)	0		ious Year ume	0		ious Year jume	0	No Previ Leg		0		credit does to this crop	0	-	credit does 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 Me	at FPR		Nicholas Meat FPR			Nicholas Me	eat FPR		Nicholas Me	at 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.)	cover crop	Summer utili used as gre ted after 7 da	en manure:		ing or summ ion after 7 da			Spring: Spring or summer utilization- Incorporation after 7 days or none		winter crop	arly spring un in double cr and after 7 da	op system:	winter crop	early spring u o in double co red after 7 da	rop system:
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)		28,455	•		19,512			10,569			48,374			39,431	
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	Crop P Re	0 emoval (lb/A)	gal/A 0.0	Crop P Re	emoval (lb/A)	gal/A 0.0	Crop P R	0 emoval (lb/A)	gal/A 0.0	Crop P Re	68,750 emoval (lb/A)		Crop P Re	59,659 emoval (lb/A)	
P Index Value	<u> </u>	, ,					<u> </u>	. ,		<u> </u>	. ,		<u> </u>	. ,	
Planned Manure Rate (ton or gal/A)		9000	gal/A		9000	gal/A	1	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								1				•			•
Final Nutrient Balance (lb/A)							4	-56	-26						
Multiple Application		Multiple	1		Multiple	1	1	Multiple Final			Multiple Initia	ıl		Multiple	•
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O I are based on Crop Removal and SHOULD NOT be used to determine S			Nutrient Balances for P2O5 and K2O Nare based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			'			O Nutrient Balances for P2O5 and K2C are based on Crop Removal and		oval and to determine

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets	Small Grain Silage Double Crop Corn Sm Wetzell1-2, K1-3, Maguire 1-5,				Silage Doub	ole Crop Corn	Small Grair	n Silage Doub	le Crop Corr	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn
Crop Group Identification															
Fields		I-2, K1-3, Ma Everly 1-6 &	-		-2, K1-3, Ma Everly 1-6 &	-		1-2, K1-3, Ma Everly 1-6 &	-		l-2, K1-3, Ma Everly 1-6 &	-		l-2, K1-3, Ma Everly 1-6 &	
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	121			121			121			121			121		
P Index Part A Evaluation Part A Result															
Crop	Sn	mall Grain Sil	age	Sn	nall Grain Sil	lage		Corn for Grai	n		Corn for Grai	in		Corn for Grai	n
Planned Yield		7	ton/A		7	ton/A		180	bu/A		180	bu/A		180	bu/A
Crop Removal Recommendations (lb/A)	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20
Crop Removal Recommendations (ID/A)	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	1001	\M:=4== D		1001	W: D		00	C 5	\bl- 0	00	C 5)bl- O	00	C 5	\bl- O
Double Crop Carry Over N (lb/A) Manure History Description	[22]		ouble Crop	[22]		ouble Crop inter Double	88	Summer L	ouble Crop	88	Summer L	Oouble Crop	88	Summer L	ouble Crop
Residual Manure N (lb/A)	Rarely - Winter Double Crop Legume N credit does		0	C	rop	0	, i	immer Crop	0	,	immer Crop	0	, ,		
Legume History Description Residual Legume N (lb/A) Net Nutrients Required (lb/A)	75	_	to this crop	Legume N credit does not apply to this crop			0 No Previous Year Legume			70	Leg	jume 186	0 No Previous Legume 48 25		ume
1 ()	Nicholas Me		162	53 1 152 Nicholas Meat FPR			92 57 196			Nicholas Me	41	186	Nicholas Me	176	
Manure Group Units	lb/1000 gal	sal FFN		lb/1000 gal	alrrn		Nicholas Meat FPR				eal FFIX		lb/1000 gal		
Manure Nutrient Content	N	P2O5	K20	N	P2O5	K20	lb/1000 gal N	P2O5	K20	lb/1000 gal 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: E	Early spring up in double crited after 7 da	tilization incl.	Early Fall: E		itilization incl. rop system:	Spring: Spr	ring or summetion after 7 da	er utilization-	Spring: Spr	ing or summe	er utilization-	Spring: Spr	ing or summe	er utilization-
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)		30,488			21,545			37,398			28,455			19,512	
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	Crop P Re	50,568 emoval (lb/A)		Crop P Re	41,477 emoval (lb/A)		Crop P R	32,386 emoval (lb/A)		Crop P R	23,295 emoval (lb/A)		Crop P R	14,205 emoval (lb/A)	
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		T	T		T	1					T	T		T	
Final Nutrient Balance (lb/A)				31	-15	142									
Multiple Application		Multiple			Multiple Fina	al		Multiple Initia	ıl		Multiple			Multiple	
Soil test or Crop Removal	are based on Crop Removal and		Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			D Nutrient Balances for P2O5 and K2C are based on Crop Removal and BHOULD NOT be used to determine additional fertilizer needs			are based on Crop Removal and		oval and to determine	

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets Crop Group Identification	Small Grain	Silage Doub	le Crop Corr		Wheat			Wheat			Wheat			Orchardgras	S	
Fields		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &			l-2, K1-3, Maç Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &			-2, K1-3, Ma Everly 1-6 &		
Acres		141.7			141.7			141.7			141.7			141.7		
NBS Option	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Rec	juirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	
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								1								
Part A Result																
Crop	(Corn for Grai			Wheat			Wheat			Wheat		Established Orchardgrass			
Planned Yield			bu/A			bu/A			bu/A			bu/A			ton/A	
Crop Removal Recommendations (lb/A)	N 180	P2O5 72	K2O 54	N 80	P2O5 80	K2O 144	N 80	P2O5 80	K2O	N 80	P2O5 80	K2O 144	N 250	P2O5 75	K2O 250	
Soil Test Recommendation (lb/A) Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)	100	72	0.1	55			00	00	177	55		1111	200	70	200	
P Index Application Method								T			1					
Double Crop Carry Over N (lb/A)	0	Summer D	Oouble Crop	0			0			0			0			
Manure History Description Residual Manure N (lb/A)	0	0 Rarely - Summer Crop			,	mmer Crop	0	Rarely - Su		0	,	mmer Crop	0	Rarely - Summer C		
Legume History Description Residual Legume N (lb/A)	0		ious Year ume	0 Legume N credit does not apply to this crop		0 Legume N credit does not apply to this crop		0 Legume N cro			0		credit does 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 Me	at FPR		Nicholas Meat FPR I			Nicholas Me	eat FPR		Nicholas Me	at 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	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.)		ing or summe ion after 7 da		winter crop	arly spring u in double cr ed after 7 da	op system:	winter cro	Early spring ut p in double cro ted after 7 da	op system:	winter crop	arly spring un in double cr and after 7 da	op system:	cover	Summer utiliz crop: All met incorporatior	hods of	
Availability Factors	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	
(Total N or NH4-N & Organic 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			23,577	gal/A		14,634			101,626		
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	Crop P Re	5,114 emoval (lb/A)	gal/A	Crop P Re	45,455 emoval (lb/A)	<u> </u>	Crop P R	36,364 emoval (lb/A)		Crop P Re	27,273 emoval (lb/A)	•	Crop P Re	42,614 emoval (lb/A)		
P Index Value	21.26.110	(12/71)		21.20.110	(12/11)		2.56.10	(12// 1)		21.26.110	(12/11)			(
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		·	ı -	<u> </u>	ı <u>*</u>	·	<u> </u>		<u> </u>	<u> </u>	·	·	<u> </u>	<u> </u>	1	
Final Nutrient Balance (lb/A)	4	-7	156							14	32	114				
Multiple Application		4 -7 156 Multiple Final			L Multiple Initia	I		Multiple			Multiple Fina			L Multiple Initia		
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O I are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			O Nutrient Balances for P2O5 and K2O are based on Crop Removal and		O5 and K2O oval and o determine	

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets Crop Group Identification		Orchardgras	s		Orchardgras	s		Orchardgrass	S		Orchardgras	S		Orchardgras	s
Fields		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Maç Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement
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	Establ	ished Orchai	rdgrass	Establ	ished Orchar	rdgrass	Estab	lished Orchar	dgrass	Establ	ished Orchar	dgrass	Establ	ished Orcha	rdgrass
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)			200	200		200	200		200	200		200	200		250
P Index Application Method	_	1		_			_								
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	-	ımmer Crop	0	,	ımmer Crop	0	Rarely - Su	· .	0	-	mmer Crop	0	-	ımmer Crop
Legume History Description Residual Legume N (lb/A)	0	-	credit does to this crop	0		credit does to this crop	0	Legume N not apply t		0		credit does to this crop	0		credit does 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 Me	at FPR		Nicholas Meat FPR			Nicholas Meat FPR			Nicholas Me	at 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.)	cover	Summer utiliz crop: All met incorporation	hods of	Early Fall: Summer utilization with no cover crop: All methods of incorporation		Spring: Spring or summer utilization- Incorporation after 7 days or none			ing or summe ion after 7 da			ing or summ ion after 7 da			
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method															
N Balanced Manure Rate (ton; gal/A)		92,683			83,740			74,797			65,854			56,911	gal/A
P Removal Balance Manure Rate (ton or gal/A; If required by P Index)	Crop P Re	33,523 emoval (lb/A)		Crop P Re	24,432 emoval (lb/A)	•	Crop P R	15,341 emoval (lb/A)		Crop P Re	6,250 emoval (lb/A)		Crop P Re	emoval (lb/A)	gal/A 0.0
P Index Value	' '	(,			1 7		† ' · · ·	(- 7		<u> </u>	(7		<u> </u>	()	
Planned Manure Rate (ton or gal/A)		9000	gal/A		9000	gal/A	1	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		1			1	-		1	-		1	1		1	
Final Nutrient Balance (lb/A)															
Multiple Application		Multiple			Multiple			Multiple			Multiple	1		Multiple	
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			O Nutrient Balances for P2O5 and K2O are based on Crop Removal and		oval and to determine

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets		Orchardgras	s		Orchardgras	s		Orchardgrass	s		Oats			Oats	
Crop Group Identification															
Fields		-2, K1-3, Ma Everly 1-6 &			-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Mag Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &	-		-2, K1-3, Ma Everly 1-6 &	•
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	121			121			121			120			120		
P Index Part A Evaluation Part A Result											1				
Crop	Estab	lished Orchai	rdgrass	Establ	ished Orcha	rdgrass	Estab	lished Orchar	dgrass		Oats			Oats	
Planned Yield			ton/A			5 ton/A		5 ton/A				bu/A		80 bu/A	
	N P2O5 K2O		N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	
Crop Removal Recommendations (lb/A)	250	75	250	250	75	250	250	75	250	64	80	120	64	80	120
Soil Test Recommendation (lb/A)					1					1					
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	,	ımmer Crop	0	-	ımmer Crop	0		mmer Crop	0	•	ımmer Crop	0 Rarely - Summe		
Legume History Description Residual Legume N (Ib/A)	0	not apply	to this crop	0	not apply	to this crop	0		to this crop	0	not apply	to this crop	0		to this crop
Net Nutrients Required (lb/A)	118	-21	190	96 -37 180			74 -53 170			64 80 120 Nicholas Meat FPR			42	110	
Manure Group Units	Nicholas Me	eat FPK		Nicholas Me	al FPR								Nicholas Meat FPR Ib/1000 gal		
	lb/1000 gal	DOOL	1/00	lb/1000 gal	DOOL	1/00	lb/1000 gal			lb/1000 gal N P2O5 K20			N	DOOF	1/00
Manure Nutrient Content	N 12.30	P2O5 1.76	K20	N 12.30	P2O5 1.76	K20	N 12.30	P2O5 1.76	K20 1.12	12.30	1.76	1.12	12.30	P2O5 1.76	K20 1.12
(lbs/ton or 1000 gal)	12.30	1.76	1.12	12.30	1.70	1.12	12.30	1.70	1.12	12.30	1.76	1.12	12.30	1.76	1.12
Application Season: Management (Incorporation, cover crops, etc.)		ing or summetion after 7 da			r: Summer u ion after 7 da			er: Summer ut tion after 7 da			Summer: Summer utilization Summer atilization after 7 days			er: Summer u tion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic 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)	Crop P Re	0 emoval (lb/A)	gal/A 0.0	Crop P Re	0 emoval (lb/A)	gal/A 0.0	Crop P R	0 emoval (lb/A)	gal/A 0.0	Crop P Re	45,455 emoval (lb/A)		Crop P Re	36,364 emoval (lb/A)	<u> </u>
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 Fina	I		Multiple Initia	al		Multiple Fina	I
Soil test or Crop Removal	Nutrient Balances for P2O5 and K2O are based on Crop Removal and		Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			are based on Crop Removal and			O Nutrient Balances for P2O5 and K2O are based on Crop Removal and			

Option 1 P Removal Option 2 Nitrogen Based Nutrient Balance Sheets Crop Group Identification	Corn I	Following Soy	ybeans	Corn F	Following So	ybeans	Corn	Following Soy	/beans	Corn	Following So	/beans	Corn	Following So	ybeans
Fields		-2, K1-3, Ma Everly 1-6 &	-		-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Maç Everly 1-6 & 8			-2, K1-3, Ma Everly 1-6 &	•		-2, K1-3, Ma Everly 1-6 &	
Acres		141.7			141.7			141.7			141.7			141.7	
NBS Option	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Red	quirement	Option 2	Nitrogen Re	quirement	Option 2	Nitrogen Re	quirement
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test	ppm P	-		ppm P			ppm P			ppm P	-		ppm P	-	
For Option 3 enter soil test for PI	121			121			121			121			121		
P Index Part A Evaluation															
Part A Result															
Crop	1	Corn for Grai		(Corn for Grai			Corn for Grain			Corn for Grai		1	Corn for Gra	
Planned Yield			bu/A			bu/A			bu/A			bu/A			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)	100	,,,	01	100	72	01	100	, , ,		100	72		100	72	01
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 60 Soybeans, 60 bu/A			0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	ımmer Crop
Legume History Description Residual Legume N (Ib/A)	60 Soybeans, 60 bu/A			0	Soybean	s, 60 bu/A	0	Soybeans	s, 60 bu/A	0	Soybean	s, 60 bu/A	0	Soybean	s, 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 Me	at FPR		Nicholas Me	at FPR		Nicholas Me	eat FPR		Nicholas Me	eat FPR		Nicholas Me	eat FPR	·
Units	lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal			lb/1000 gal		
Manure Nutrient Content	N	P205	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 utiliza crop: All metl incorporation	hods of	Early Fall: S cover	Summer utiliz crop: All met incorporation	hods of		ing or summe tion after 7 da			ing or summe tion after 7 da			ing or summ ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic 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)	Crop P Re	40,909 emoval (lb/A)		Crop P Re	31,818 emoval (lb/A)		Crop P R	22,727 emoval (lb/A)		Crop P Re	13,636 emoval (lb/A)	•	Crop P Re	4,545 emoval (lb/A)	gal/A 8.0
P Index Value	<u> </u>	, ,		<u> </u>	` '		<u> </u>	, ,		<u> </u>	` '		·	. ,	
Planned Manure Rate (ton or gal/A)		9000	gal/A		9000	gal/A	1	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						•		1			1			•	•
Final Nutrient Balance (lb/A)													10	-8	4
Multiple Application		Multiple Initia	1		Multiple		1	Multiple	1		Multiple	1		Multiple Fina	ı
Soil test or Crop Removal	are based o	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and to determine	SHOULD N	n Crop Remo	oval and to determine	are based of SHOULD N	ances for P20 on Crop Remo OT be used to ertilizer needs	val and	are based of SHOULD N	n Crop Remo	oval and o determine	are based o SHOULD N	n Crop Remo	oval and to determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1	
Crop Group		Corn			Corn			Corn			Corn			Corn	
Acres		15.1			15.1			15.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	0	option 3 P Ind	ex		option 3 P Ind	lex	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex
· ·	ppm P	phon o i ma		ppm P	puon o i ma		ppm P	puon o i mo		ppm P	paono i ma		ppm P	paon o i ma	
Mehlich 3 Soil Test P For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	67	-		67			67			67			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 Grai	n		Corn for Grai	n		Corn for Gra	in		Corn for Grai	n		Corn for Grai	n
Planned Yield			bu/A		180	bu/A		180) bu/A		180	bu/A		180	bu/A
	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20
Crop Removal Recommendations (LB/A)	180	72	54	180	72	54	180	72	54	180	72	54	180	72	54
Soil Test Recommendation (lb/A)	100		04	100	'-	0-1	100	12	01	100		0-1	100	12	01
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 - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (lb/A)	0	Legume				ious Year ume	0		ious Year jume	0		ious Year ume	0	No Previ Leg	ous Year ume
Net Nutrients Required (lb/A)	180	Legume			56	44	136	40	34	121	29	27	106	18	20
Manure Group	Nicholas Me	at FPR		Nicholas Me	eat FPR		Nicholas Me	eat FPR		Nicholas Me	at FPR		Nicholas Me	at 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	P205	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.)		r: Summer u			Summer utiliz crop: All met incorporatior	hods of		ummer Utiliza or annuals-No			mmer Utiliza or annuals-No	•		ing or summe ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		-
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 1 wk.	Surface app	. when frozen/	snow covered	Surface app.	when frozen/s	snow covered	April - Oct: N	No incorp or in	ncorp > 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		40,909	gal/A		31,818	gal/A		22,727	′ gal/A		16,477	gal/A		10,227	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P R	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)	•
P Index Value		33			33			33	<u> </u>		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 Initia	ıl		Multiple			Multiple			Multiple			Multiple	
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based of SHOULD N	lances for P2 on Crop Remo OT be used to ertilizer needs	oval and to determine	are based o	n Crop Remo	oval and o determine	SHOULD N	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine

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 Doub	le Crop Corn	Small Grain	Silage Doubl	le Crop Corn
Acres		15.1			15.1			15.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	О	ption 3 P Ind	ex	C	Option 3 P Ind	lex	С	ption 3 P Ind	ex	0	ption 3 P Ind	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	67			67			67			67			67		
P Index Part A Evaluation															
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	(Corn for Grai	n		Corn for Gra	n		Corn for Grai	in	Sr	nall Grain Sil	age	Sn	nall Grain Sila	age
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	K2O 182	N 119	P2O5	K2O 182
Soil Test Recommendation (lb/A)	100	- '-		100			100	12	01	110	10	102	110	40	102
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 Do	ouble Crop	[22]	Winter Do	ouble Crop
Manure History Description Residual Manure N (lb/A)	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (lb/A)	0 No Previous Year Legume 84 2 10			0		ious Year ume	0		ious Year jume	0	-	credit does to this crop	0		credit does 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	84 2 10			Nicholas Me	eat FPR		Nicholas Me	eat FPR		Nicholas Me	at FPR		Nicholas Me	at 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	P205	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.)		ing or summe ion after 7 da			ing or summ			ring or summetion after 7 da			r: Summer u ion after 7 da		cover	Summer utiliza crop: All meth incorporation	hods of
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or i	ncorp > 1 wk.	April - Oct:	No incorp or in	ncorp > 1 wk	April - Oct: I	No incorp or i	ncorp > 1 wk.	April - Oct: N	lo incorp or in	ncorp > 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		1,136	gal/A		0	gal/A		0	gal/A		27,841	gal/A		18,750	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	2.0	Crop P Re	emoval (lb/A)	0.0	Crop P R	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	49.0	Crop P Re	emoval (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 Fina	ıl		Multiple Initia	ıl		Multiple	
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and to determine	are based o	ances for P2 in Crop Remi OT be used t irtilizer needs	oval and to determine	are based of SHOULD N	lances for P2 on Crop Remo IOT be used t ertilizer needs	oval and to determine	are based of SHOULD N	n Crop Remo	oval and to determine	SHOULD N	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets		Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1	
Field Identification															
Crop Group	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn		Orchardgrass	3
Acres		15.1			15.1			15.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex	C	ption 3 P Ind	ex	C	ption 3 P Ind	ex	0	ption 3 P Ind	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	67			67			67			67			67		
P Index Part A Evaluation		Winter			Winter										
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Sn	nall Grain Sila	age	Sr	nall Grain Sil	age		Corn for Grai	in		Corn for Grai	n	Establ	ished Orchar	dgrass
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	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)	1.0		102			102			0.	.00			200		200
Other Nutrients Applied (lb/A) (Nutrients applied regardless of manure)															
P Index Application Method															
Double Crop Carry Over N (lb/A)	[15]	Winter Do	ouble Crop	[15]	Winter Do	ouble Crop	74	Summer D	ouble Crop	0	Summer D	ouble Crop	0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Su	mmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (Ib/A)	0	0 Legume N credit does not apply to this crop 75 17 162				credit does to this crop	0		ious Year ume	0		ious Year ume	0		credit does to this crop
Net Nutrients Required (lb/A)	75	not apply to this crop 75 17 162			6	155	45	-5	148	23	-21	138	250	75	250
Manure Group	Nicholas Me				eat FPR	•	Nicholas Me	eat FPR	•	Nicholas Me	at FPR	•	Nicholas Me	at 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	P205	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.)		ımmer Utiliza or annuals-No	•		ımmer Utiliza or annuals-No			ing or summe tion after 7 da			ing or summe ion after 7 da			r: Summer ut ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	Surface app.	when frozen/s	snow covered	Surface app	when frozen/	snow covered	April - Oct:	No incorp or in	ncorp > 1 wk.	April - Oct: I	lo incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 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		9,659	gal/A		3,409	gal/A		0	gal/A		0	gal/A		42,614	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	17.0	Crop P Re	emoval (lb/A)	6.0	Crop P R	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	0.0	Crop P Re	emoval (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 Fina	i I	İ	Multiple	•		Multiple Fina	İ		Multiple Initia	i
Soil test or Crop Removal	are based o SHOULD No	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based of SHOULD N	ances for P2 in Crop Remo OT be used to ertilizer needs	o determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based of SHOULD N	n Crop Remo	oval and o determine	are based o SHOULD N	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 1	
Crop Group		Orchardgrass	6		Orchardgras	s		Orchardgras	s		Orchardgrass	s		Orchardgrass	5
Acres		15.1			15.1			15.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	lex		option 3 P Ind	ex	0	ption 3 P Ind	ex	0	ption 3 P Inde	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	67			67			67			67			67		
P Index Part A Evaluation					Winter			Winter							
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Establ	ished Orchar	dgrass	Establ	ished Orchai	rdgrass	Estab	lished Orchar	rdgrass	Establ	ished Orchar	rdgrass	Establ	ished Orchar	dgrass
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)	200		200	200		200	200		200	200		200	200		200
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 Legume N credit does not apply to this crop			0	-	ımmer Crop	0		ımmer Crop	0	·	ımmer Crop	0	Rarely - Su	·
Legume History Description Residual Legume N (lb/A)	0 Legume N credit does not apply to this crop 228 59 240			0		credit does to this crop	0		credit does to this crop	0	5	credit does to this crop	0	Legume N not apply t	
Net Nutrients Required (lb/A)	not apply to this crop 228 59 240			206	43	230	191	32	223	176	21	216	154	5	206
Manure Group	Nicholas Me	at FPR		Nicholas Me	at FPR		Nicholas M	eat FPR		Nicholas Me	at FPR		Nicholas Me	at 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.)	cover	Summer utiliza crop: All metl incorporation	nods of		mmer Utiliza or annuals-No	U		ummer Utiliza or annuals-No	Ü		ng or summe ion after 7 da			ng or summe ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	Surface app.	when frozen/	snow covered	Surface app	. when frozen/s	snow covered	April - Oct: 1	lo incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	corp > 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		33,523	gal/A		24,432	gal/A		18,182	gal/A		11,932	gal/A		2,841	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	59.0	Crop P Re	moval (lb/A)	43.0	Crop P R	emoval (lb/A)	32.0	Crop P Re	moval (lb/A)	21.0	Crop P Re	moval (lb/A)	
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	are based o SHOULD No	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o SHOULD N	n Crop Remo	to determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based o	n Crop Remo	oval and to determine	SHOULD N	ances for P20 n Crop Remo DT be used to rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets		Wetzell 1			Wetzell 1			Wetzell 1			Wetzell 2			Wetzell 2	
Field Identification Crop Group		Orchardgras	s		Orchardgras	s		Orchardgrass	 S		Corn			Corn	
		15.1			45.4			45.4			24.1			24.1	
Acres		ption 3 P Ind	lav.		15.1 Option 3 P Ind	lav		15.1 Option 3 P Ind	•		ption 3 P Ind	lav.		ption 3 P Inde	21/
NBS Option		puon 3 P ina	ex		ption 3 P ind	iex		puon 3 P ina	ex		puon 3 P ma	ex	-	puon 3 P mai	ex
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					1			1							
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Establ	lished Orchar	dgrass	Estab	lished Orcha	rdgrass	Estab	lished Orchar	dgrass	1	Corn for Grai	in	(Corn for Grain	n
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)	200	10	200	200	70	200	200	10	200	100		01	100		01
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 - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (lb/A)	0 Legume N credit does not apply to this crop			0		credit does to this crop	0		credit does to this crop	0		ious Year jume	0	No Previ Leg	
Net Nutrients Required (lb/A)	not apply to this crop			110	-27	186	88	-43	176	180	72	54	158	56	44
Manure Group	Nicholas Me	eat FPR	•	Nicholas Me	eat FPR	•	Nicholas Me	eat FPR	•	Nicholas Me	at FPR	•	Nicholas Me	at 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.)		ing or summe ion after 7 da			ing or summ tion after 7 da			ing or summe tion after 7 da			r: Summer u ion after 7 da		cover	Summer utiliza crop: All meth incorporation	nods of
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or i	ncorp > 1 wk.	April - Oct:	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	corp > 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		0	gal/A		0	gal/A		0	gal/A		40,909	gal/A		31,818	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	0.0	Crop P R	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	72.0	Crop P Re	moval (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 Fina	I		Multiple Initia	ıl		Multiple	
Soil test or Crop Removal	are based o SHOULD No	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and to determine	are based of SHOULD N	n Crop Rem	to determine	are based of SHOULD N	ances for P20 on Crop Remo OT be used t ertilizer needs	oval and o determine	are based o SHOULD N	n Crop Remo	oval and to determine	are based o SHOULD N	ances for P20 n Crop Remo DT be used to rtilizer needs	oval and o determine

Option 3 P Index		\\\ \ - 0			\A\ (- 0)A/ (- II O)A/ /- II O			M (0	
Nutrient Balance Sheets Field Identification	_	Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2	
Crop Group		Corn			Corn			Corn			Corn			Corn	
Acres		24.1			24.1			24.1			24.1			24.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex	C	ption 3 P Ind	ex	С	ption 3 P Ind	lex	0	ption 3 P Inde	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	52			52			52			52	=		52		
P Index Part A Evaluation		Winter			Winter									Į.	
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	(Corn for Grai	n	(Corn for Grai	n		Corn for Grai	in		Corn for Grai	in	(Corn for Grain	n
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	No Previous Year				ımmer Crop	0	,	ımmer Crop	0		ımmer Crop	0	Rarely - Su	•
Legume History Description Residual Legume N (lb/A)	0			0	Leg	ious Year ume	0		ious Year ume	0	Leg	ious Year jume	0	No Previ Leg	
Net Nutrients Required (lb/A)	136 40 34			121	29	27	106	18	20	84	2	10	62	-14	0
Manure Group	Nicholas Me	at FPR		Nicholas Me	at FPR		Nicholas M	eat FPR		Nicholas Me	eat FPR		Nicholas Me	at 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	P205	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.)		ımmer Utiliza or annuals-No	•		ımmer Utiliza or annuals-No			ing or summe tion after 7 da			ing or summe ion after 7 da			ng or summe ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	Surface app.	when frozen/s	snow covered	Surface app.	when frozen/s	snow covered	April - Oct:	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	corp > 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		22,727	gal/A		16,477	gal/A		10,227	gal/A		1,136	gal/A		0	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	40.0	Crop P Re	emoval (lb/A)	29.0	Crop P R	emoval (lb/A)	18.0	Crop P Re	emoval (lb/A)	2.0	Crop P Re	moval (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	are based o SHOULD No	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o SHOULD N	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and to determine	are based of SHOULD N	ances for P20 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	SHOULD N	ances for P20 n Crop Remo OT be used to rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2	
Crop Group		Corn		Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doubl	le Crop Corn
Acres		24.1			24.1			24.1			24.1			24.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex	С	ption 3 P Ind	ex	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	52	-		52			52			52			52	-	
P Index Part A Evaluation		1			1						Winter			Winter	
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	(Corn for Grai	n	Sn	nall Grain Sil	age	Sr	nall Grain Sila	age	Sn	nall Grain Sila	age	Sr	nall Grain Sila	age
Planned Yield		180	bu/A		7	ton/A		7	ton/A		7	ton/A		7	ton/A
	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K2O
Crop Removal Recommendations (LB/A)	180	72	54	119	49	182	119	49	182	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			<u>I</u>			<u> </u>					<u>I</u>	<u> </u>		<u> </u>	L
Double Crop Carry Over N (lb/A)	0			[22]	Winter Do	ouble Crop	[22]	Winter Do	ouble Crop	[15]	Winter Do	ouble Crop	[15]	Winter Do	uble Crop
Manure History Description Residual Manure N (lb/A)	0	Rarely - Su	mmer Crop	0		ımmer Crop	0		ımmer Crop	0		ımmer Crop	0		mmer Crop
Legume History Description Residual Legume N (lb/A)	0 No Previous Year Legume 40 -30 -10		0		credit does to this crop	0		credit does to this crop	0	-	credit does to this crop	0		credit does to this crop	
Net Nutrients Required (lb/A)	0 Legume			119	49	182	97	33	172	75	17	162	60	6	155
Manure Group	Nicholas Me	at FPR	l .	Nicholas Me	at FPR	1	Nicholas Me	eat FPR		Nicholas Me	at FPR	1	Nicholas Me	eat FPR	I.
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	P205	K20	N	P205	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.)		ing or summe ion after 7 da			r: Summer u ion after 7 da		,	Summer utiliza crop: All metl incorporation	hods of	winter: St	mmer Utiliza or annuals-No			ımmer Utiliza or annuals-No	•
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 1 wk.	Surface app.	when frozen/s	snow covered	Surface app.	when frozen/s	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			gal/A		68,750	•		59,659	•		50,568	-		44,318	•
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	•	Crop P Re	emoval (lb/A)		Crop P R	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)	•
P Index Value		32			32			32			32		'	32	
Planned Manure Rate (ton or gal/A)			gal/A			gal/A			gal/A			gal/A			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 Fina	İ		Multiple Initia	ıl		Multiple	•		Multiple	•		Multiple Fina	İ
Soil test or Crop Removal	are based o SHOULD N	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o SHOULD N	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and to determine	are based of SHOULD N	ances for P20 on Crop Remo OT be used t ertilizer needs	oval and o determine	are based of SHOULD N	n Crop Remo	oval and to determine	are based of SHOULD N	ances for P20 n Crop Remo OT be used to rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2	
Crop Group	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn	Small Grain	Silage Doub	le Crop Corn		Orchardgrass	3
Acres		24.1			24.1			24.1			24.1			24.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex	C	ption 3 P Ind	ex	С	ption 3 P Ind	ex	0	ption 3 P Inde	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	52			52			52			52			52		
P Index Part A Evaluation								•							
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	(Corn for Grai	n	1	Corn for Grai	n		Corn for Grai	n		Corn for Grai	in	Establ	ished Orchar	dgrass
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	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 D	ouble Crop	74	Summer D	ouble Crop	74	Summer D	ouble Crop	0	Summer D	ouble Crop	0		
Manure History Description Residual Manure N (lb/A)	0	No Previous Year			Rarely - Su	ımmer Crop	0	,	ımmer Crop	0	-	ımmer Crop	0	Rarely - Su	
Legume History Description Residual Legume N (lb/A)	0	0		0	Leg	ious Year ume	0	Leg	ious Year ume	0	Leg	ious Year ume	0	Legume N not apply t	
Net Nutrients Required (lb/A)		106 67 202		84	51	192	62	35	182	40	19	172	250	75	250
Manure Group	Nicholas Me	at FPR		Nicholas Me	eat FPR		Nicholas Me	eat FPR		Nicholas Me	eat FPR		Nicholas Me	at 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.)		ing or summe ion after 7 da			ing or summo			ing or summe tion after 7 da			ing or summe ion after 7 da			r: Summer ut ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20		_	0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct:	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	corp > 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		38,068	gal/A		28,977	gal/A		19,886	gal/A		10,795	gal/A		42,614	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	67.0	Crop P Re	emoval (lb/A)	51.0	Crop P R	emoval (lb/A)		Crop P Re	emoval (lb/A)	19.0	Crop P Re	emoval (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 Initia	İ		Multiple	•		Multiple	•		Multiple Fina	l		Multiple Initial	ı
Soil test or Crop Removal	are based o	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o SHOULD N	ances for P2 in Crop Remo OT be used t irtilizer needs	oval and to determine	are based of SHOULD N	ances for P20 on Crop Remo OT be used t ertilizer needs	oval and o determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based o	ances for P20 n Crop Remo OT be used to rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2			Wetzell 2	
Crop Group		Orchardgras	S		Orchardgras	s		Orchardgras	s		Orchardgras	S		Orchardgrass	S
Acres		24.1			24.1			24.1			24.1			24.1	
NBS Option	0	ption 3 P Ind	ex	О	ption 3 P Ind	lex	C	ption 3 P Ind	ex	0	ption 3 P Ind	ex	0	ption 3 P Ind	ex
Mehlich 3 Soil Test P	ppm P			ppm P	Ì		ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	52			52			52			52			52		
P Index Part A Evaluation					Winter			Winter						•	
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Establ	lished Orchar	dgrass	Estab	lished Orcha	rdgrass	Estab	lished Orchai	rdgrass	Establ	ished Orchar	dgrass	Establ	ished Orchar	dgrass
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)	200	7.0	200	200	7.5	200	200	7.5	200	200	7.0	200	200	7.5	200
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	Legume N credit does			Rarely - Su	ummer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (lb/A)	not apply to this crop			0		credit does to this crop	0		credit does to this crop	0		credit does to this crop	0		credit does to this crop
Net Nutrients Required (lb/A)	not apply to this crop 228 59 240		206	43	230	191	32	223	176	21	216	154	5	206	
Manure Group	Nicholas Me	at FPR	•	Nicholas Me	eat FPR	•	Nicholas Me	eat FPR	•	Nicholas Me	at FPR	•	Nicholas Me	at 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	P205	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.)	cover	Summer utiliz crop: All met incorporatior	hods of	winter: St	ummer Utiliza or annuals-No	U		ummer Utiliza or annuals-No			ing or summe ion after 7 da			ing or summe ion after 7 da	
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	Surface app	. when frozen/	snow covered	Surface app	. when frozen/	snow covered	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 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		33,523	gal/A		24,432	gal/A		18,182	gal/A		11,932	gal/A		2,841	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P R	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)	-
P Index Value	<u> </u>	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	1	,	,						,		1	1		1	
Final Nutrient Balance (lb/A)															
Multiple Application		Multiple			Multiple			Multiple			Multiple			Multiple	
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and to determine	are based of SHOULD N	n Crop Rem	to determine	are based of SHOULD N	ances for P2 on Crop Remo OT be used t ertilizer needs	oval and to determine	are based o SHOULD N	n Crop Remo	oval and o determine	SHOULD N	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets		Wetzell 2			Wetzell 2			Wetzell 2			Maguire 2, 3,	4		Maguire 2, 3,4	4
Field Identification															
Crop Group		Orchardgras	S		Orchardgras	s		Orchardgras	S		Corn			Corn	
Acres		24.1			24.1			24.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	0	ption 3 P Ind	lex	C	option 3 P Ind	ex	0	ption 3 P Ind	ex	0	ption 3 P Inde	ex
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	52			52			52			55			55		
P Index Part A Evaluation														•	
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Establ	ished Orchar	dgrass	Establ	lished Orcha	rdgrass	Estab	lished Orchar	dgrass		Corn for Grai	in	(Corn for Grain	n
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)	200	10	200	200	10	200	200	7.5	200	100	12		100	12	
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 - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop
Legume History Description Residual Legume N (lb/A)	0 Legume N credit does not apply to this crop			0		credit does to this crop	0		credit does to this crop	60	Soybean	s, 60 bu/A	0	No Previ	
Net Nutrients Required (lb/A)	not apply to this crop 132 -11 196			110	-27	186	88	-43	176	120	72	54	98	56	44
Manure Group	132 -11 196			Nicholas Me	eat FPR	Į.	Nicholas Me	eat FPR		Nicholas Me	at FPR	1	Nicholas Me	at 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	P205	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.)		ing or summe ion after 7 da			ing or summ			ing or summe tion after 7 da			r: Summer u ion after 7 da		cover	Summer utiliza crop: All meth incorporation	nods of
Availability Factors	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or i	ncorp > 1 wk.	April - Oct:	No incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	corp > 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		0	gal/A		0	gal/A		0	gal/A		40,909	gal/A		31,818	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	0.0	Crop P R	emoval (lb/A)	0.0	Crop P Re	emoval (lb/A)	72.0	Crop P Re	moval (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 Fina	I		Multiple Initia	ıl		Multiple	
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o	n Crop Rem	to determine	are based of SHOULD N	lances for P2 on Crop Remo OT be used t ertilizer needs	oval and o determine	are based o	n Crop Remo	oval and to determine	SHOULD NO	ances for P20 n Crop Remo DT be used to rtilizer needs	oval and o determine

Option 3 P Index Nutrient Balance Sheets Field Identification		Maguire 2, 3,	4	N	Maguire 2, 3,	4		Maguire 2, 3,	4		Maguire 2, 3,	4		Maguire 2, 3,	4
Crop Group		Corn			Corn			Corn			Corn		Small Grain	Silage Doubl	le Crop Corn
Acres		15.1			15.1		15.1		15.1			15.1			
NBS Option	0	ption 3 P Ind	ex	0	Option 3 P Index		C	ption 3 P Inde	ex	Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P	ppm P			ppm P	ppm P r		ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	55			55			55			55			55	=	
P Index Part A Evaluation		Winter			Winter						ļ.				
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	(Corn for Grai	n	(Corn for Grai	n		Corn for Grai	n		Corn for Grai	n	Sr	nall Grain Sila	age
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	K20 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 Do	ouble Crop
Manure History Description Residual Manure N (lb/A)	0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	mmer Crop	0	Rarely - Su	ımmer Crop
Legume History Description Residual Legume N (lb/A)	0		ious Year ume	0		ous Year ume	0	No Previ Leg		0		ous Year ume	0	_	credit does 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 Me	at FPR		Nicholas Meat FPR		Nicholas Me	eat FPR		Nicholas Me	at FPR		Nicholas Me	eat 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.)		mmer Utiliza or annuals-No	•	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	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
(Total N or NH4-N & Organic N)	0.20			0.20			0.20		_	0.20		_	0.20		
P Index Application Method	Surface app.	when frozen/s	snow covered	Surface app.	when frozen/s	snow covered	April - Oct: I	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 1 wk.	April - Oct: I	No incorp or in	ncorp > 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		22,727	gal/A		16,477	gal/A		10,227	gal/A		1,136	gal/A		68,750	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	moval (lb/A)		Crop P Re	moval (lb/A)	29.0	Crop P R	emoval (lb/A)	18.0	Crop P Re	emoval (lb/A)	2.0	Crop P Re	emoval (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 Fina	İ		Multiple Initia	.I
Soil test or Crop Removal	are based of SHOULD NO	ances for P20 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based or SHOULD NO	Nutrient Balances for P2O5 and K2O I are based on Crop Removal and SHOULD NOT be used to determine		Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine		Nutrient Balances for P2O5 and K2O are based on Crop Removal and			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			

Option 3 P Index Nutrient Balance Sheets Field Identification		Maguire 2, 3,	4	ı	Maguire 2, 3,	4		Maguire 2, 3,	4		Maguire 2, 3,	4	ı	Maguire 2, 3,	4
Crop Group	Small Grain	Silage Doub	le Crop Corn	Small Grain	Small Grain Silage Double Crop Corn Sm		Small Grain	Small Grain Silage Double Crop Corn		n Small Grain Silage Double Crop Cori			Small Grain Silage Double Crop Corn		
Acres		15.1			15.1		15.1		15.1			15.1			
NBS Option	0	ption 3 P Ind	ex	0	Option 3 P Index			Option 3 P Index		Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P	ppm P			ppm P			ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	55			55			55			55	-		55		
P Index Part A Evaluation					Winter			Winter							
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Sn	nall Grain Sila	age	Sn	nall Grain Sil	age	Sı	mall Grain Sila	age		Corn for Grai	in	(Corn for Grai	n
Planned Yield		7	ton/A		7	ton/A		7	ton/A		180	bu/A		180	bu/A
0 5 15 15 15 (15(0)	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20
Crop Removal Recommendations (LB/A)	119	49	182	119	49	182	119	49	182	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 Do	ouble Crop	[15]	Winter Do	ouble Crop	[15]	Winter Do	ouble Crop	74	Summer D	Oouble Crop	0	Summer D	ouble Crop
Manure History Description Residual Manure N (lb/A)	0	,	mmer Crop	0 Rarely - Summer Crop 0 Rarely - Summer Crop		0	Rarely - Su	ımmer Crop	0	Rarely - Su	mmer Crop				
Legume History Description Residual Legume N (lb/A)	0		credit does to this crop	0		credit does to this crop	0 Legume N credit does not apply to this crop		60	Soybean	s, 60 bu/A	0	Soybeans	s, 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 Me	at FPR		Nicholas Meat FPR		Nicholas M	eat FPR		Nicholas Me	eat FPR		Nicholas Me	at 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.)	cover	Summer utiliz crop: All met incorporatior	nods of		mmer Utiliza or annuals-No	•	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	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
(Total N or NH4-N & Organic N)	0.20		_	0.20			0.20			0.20			0.20		
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	Surface app.	when frozen/	snow covered	Surface app	. when frozen/s	snow covered	April - Oct: I	No incorp or in	ncorp > 1 wk.	April - Oct: N	lo incorp or in	ncorp > 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		59,659	gal/A		50,568	gal/A		44,318	gal/A		38,068	gal/A		28,977	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	105.0	Crop P Re	emoval (lb/A)	89.0	Crop P R	emoval (lb/A)	78.0	Crop P Re	emoval (lb/A)	67.0	Crop P Re	moval (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 Fina	İ		Multiple Initia	al		Multiple Fina	İ
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o	n Crop Remo	to determine	·		Nutrient Balances for P2O5 and K2O are based on Crop Removal and			Nutrient Balances for P2O5 and K2O are based on Crop Removal and			

Option 3 P Index Nutrient Balance Sheets	r	Maguire 2, 3,	4		Maguire 2, 3,	,4		Maguire 2, 3,	4		Maguire 2, 3,	4	ı	Maguire 2, 3,	4
Field Identification															
Crop Group		Orchardgras	5		Orchardgras	s		Orchardgrass		Orchardgrass				Orchardgrass	S
Acres		15.1			15.1			15.1			15.1			15.1	
NBS Option	0	ption 3 P Ind	ex	0	Option 3 P Index			option 3 P Ind	ex	Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P	ppm P			ppm P	ppm P		ppm P			ppm P			ppm P		
For Option 2 enter maximum Soil Test For Option 3 enter soil test for PI	55			55				55				55			
P Index Part A Evaluation								Winter			Winter				
Part A Result		Part B			Part B			Part B			Part B			Part B	
Crop	Establ	ished Orchar	dgrass	Establ	ished Orchai	rdgrass	Estab	lished Orchar	dgrass	Establ	ished Orchar	dgrass	Establ	ished Orchar	dgrass
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	K20	N	P2O5	K20	N	P2O5	K20	N	P2O5	K20
. , ,	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		T			T			1			I			I	
Double Crop Carry Over N (lb/A)	0			0			0			0			0		
Manure History Description Residual Manure N (lb/A)	0	Rarely - Su	mmer Crop	0 Rarely - Summer Crop		0	Rarely - Su	ımmer Crop	· ·		ımmer Crop	0 Rarely - Sumr		mmer Crop	
Legume History Description Residual Legume N (lb/A)	0		credit does to this crop	0 Legume N credit does not apply to this crop		0		credit does to this crop	0		credit does to this crop	0		credit does 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 Me	at FPR	•	Nicholas Meat FPR		Nicholas Me	eat FPR	•	Nicholas Me	at FPR	•	Nicholas Me	at 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	P205	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.)		r: Summer u ion after 7 da			Summer utiliz crop: All met incorporatior		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	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
(Total N or NH4-N & Organic N)	0.20		_	0.20			0.20			0.20			0.20		_
P Index Application Method	April - Oct: N	No incorp or in	ncorp > 1 wk.	April - Oct: N	No incorp or in	ncorp > 1 wk.	Surface app	. when frozen/	snow covered	Surface app.	when frozen/s	snow covered	April - Oct: N	No incorp or in	ncorp > 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		42,614	gal/A		33,523	gal/A		24,432	gal/A		18,182	gal/A		11,932	gal/A
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)	75.0	Crop P Re	emoval (lb/A)	59.0	Crop P R	emoval (lb/A)		Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)	
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 Initia	ı		Multiple			Multiple		Multiple				Multiple	
Soil test or Crop Removal	are based o	ances for P2 n Crop Remo OT be used t rtilizer needs	oval and o determine	are based o	n Crop Remo	to determine	are based of SHOULD N	Nutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine		are based on Crop Removal and			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	l .	Maguire 2, 3,	4	Maguire 2, 3,4			
Field Identification	- '	viagaii o z., o,	•		viagairo z, o,	•	· '	magano z, o,	•		magano z, o,	•	
Crop Group		Orchardgrass			Orchardgrass			Orchardgras	S		Orchardgrass	5	
Acres		15.1			15.1			15.1		15.1			
NBS Option	0	Option 3 P Index			Option 3 P Index			Option 3 P Index			Option 3 P Index		
Mehlich 3 Soil Test P	ppm P	ppm P		ppm P			ppm P			ppm P	ppm P		
For Option 2 enter maximum Soil Test	55			55			55			55			
For Option 3 enter soil test for PI	55			55			55			55			
P Index Part A Evaluation													
Part A Result		Part B			Part B			Part B		Part B			
Crop	Establ	ished Orchar	dgrass	Establ	ished Orchar	dgrass	Estab	lished Orcha	rdgrass	Estab	lished Orchar	dgrass	
Planned Yield		5	ton/A		5	ton/A		5	ton/A		5	ton/A	
Crop Removal Recommendations (LB/A)	N	P2O5	K20	N	P2O5	K2O	N	P2O5	K20	N	P2O5	K20	
Crop Removal Recommendations (LB/A)	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		1									1		
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 Legume N credit does		0 Rarely - Sumr				
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		_	credit does to this crop	0		credit does this crop		
Net Nutrients Required (lb/A)	154	5	206	132	-11	196	110	-27	186	88	-43	176	
Manure Group	Nicholas Me	at FPR		Nicholas Me	Nicholas Meat FPR		Nicholas Me	at FPR		Nicholas Me	eat FPR		
Units	lb/1000 gal			lb/1000 gal	/1000 gal					lb/1000 gal			
Manure Nutrient Content	N	P205	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.)		ing or summe ion after 7 da		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	NH4-N	Org. N	Total N	NH4-N	Org. N	Total N	NH4-N	Org. N	Total N	NH4-N	Org. N	
(Total N or NH4-N & Organic N)	0.20			0.20			0.20			0.20			
P Index Application Method	April - Oct: N	No incorp or in	corp > 1 wk.	April - Oct: I	April - Oct: No incorp or incorp > 1 wk.			No incorp or i	ncorp > 1 wk.	April - Oct: I	No incorp or ir	ncorp > 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		2,841	•			gal/A			gal/A			gal/A	
(ton or gal/A; If required by P Index)	Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)	U	Crop P Re	emoval (lb/A)		Crop P Re	emoval (lb/A)		
P Index Value	'	35		- '	35			35			35		
Planned Manure Rate (ton or gal/A)		9,000	gal/A		9,000	gal/A	1		gal/A	1		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		1			•			•	•	İ	•		
Final Nutrient Balance (lb/A)										1	-59	166	
Multiple Application		Multiple			Multiple	Į.		Multiple	1		Multiple Fina		
Soil test or Crop Removal	are based o	ances for P20 n Crop Remo OT be used to rtilizer needs	oval and o determine	are based o SHOULD N	Jutrient Balances for P2O5 and K2O are based on Crop Removal and SHOULD NOT be used to determine			,			Nutrient Balances for P2O5 and K2O are based on Crop Removal and		

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	Pennsylvania P inde	x version z							
PART A: SCREENING TOOL CMU/Field ID			PART A: SCREENING 1	TOOL	CMU/Field ID	Wetzell 1 - Corn			
Is the CMU in a Special Protection watershed?		Is the CMU in a Specia	Il Protection watershed?			No			
A significant farm management change as defined by Act 38?		•	rm management change as d	lefined by Act 38?	If the answer is Yes to	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) any of these question							
Contributing Distance from CMU to receiving water <150 ft.?		Is the Contributing Distance from this CMU to receiving water less than 150 ft.?							
Is winter manure application planned for this field?		Is winter manure application planned for this field ?							
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.)							
PART B: SOURCE FACTORS: Mehlich 3 Soil Test P (ppm P)		rtair: iiiaoxi ait 2 To	Mehlich 3 Soil Test P (pp	1 /		No 67			
Soil Test Rating = 0.20* Mehlich 3 Soil Test P (ppm P)	I.			,		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	55555			
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	55555			
Fertilizer Rating = Fertilizer Rate x Fertilizer Application M	ethod					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	Refe	er to: Test results for P	Source Coefficient OR Book	values from P Index Fact Sheet	t Table 1	0.8, 0.8, 0.8, 0.8, 0.8, 0.8			
Manure Rating = Manure Rate x Manure Application Metho	od x P Source Coeffi	cient				66			
Source Factor Sum						79			
PART B: TRANSPORT FACTORS EROSION			Soil Loss (ton/acre/y	r)		1			
RUNOFF POTENTIAL	0 Drainage Class is Excessively	2 Drainage Class is Somewhat Excessively	4 Drainage Class is Well/Moderately Well	6 <i>Drainage Class is</i> Somewhat Poorly	8 Drainage Class is Poorly/Very Poorly	4			
					1				
SUBSURFACE DRAINAGE	0 None		1 Random		2 ¹ Patterned	0			
SUBSURFACE DRAINAGE CONTRIBUTING DISTANCE	_	2 350 to 500 ft.	· ·	6 100 to 199 ft. OR < 100 ft. with 35 ft. buffer	_	0			
CONTRIBUTING DISTANCE	None 0 > 500 ft.	350 to 500 ft.	Random 4	100 to 199 ft. OR	Patterned				
	None 0 > 500 ft. Drainage + Contribu	350 to 500 ft.	Random 4	100 to 199 ft. OR	Patterned 9 ² <100 ft.	0			
CONTRIBUTING DISTANCE Fransport Sum = Erosion + Runoff Potential + Subsurface	None 0 > 500 ft. Drainage + Contribu	350 to 500 ft. Iting Distance 0.85 parian Buffer	Random 4 200 to 349 ft.	100 to 199 ft. OR < 100 ft. with 35 ft. buffer	Patterned 9 ² <100 ft.	0 5			

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	55555	55555	22222	55555	55555	22222	22222
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	55555	55555	55555	20000	20222	55555	55555
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	55555
SUPPLEMENTAL P FERTILIZER	0, 0, 0, 0, 0, 0
P INDEX APPLICATION METHOD OF SUPPLEMENTAL P FERTILIZER ³	10000
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

Go to NBS P Index Input

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).

Verify the CMU meets the required cover conditions described in User Note 3. Wetzell 1 - Small CMU/Field ID Wetzell 1 - Corn Grain Silage Double Crop Corn Does the CMU have 25% cover or an established Does the CMU have 25% cover or an established cover crop? Yes Yes cover crop? **Evaluation Criteria Descriptions and Ranking Values Evaluation Criteria** 4 < 4 % Field Slope 4 - 8% 9 - 15% > 15% 4 4 Distance from Water Bodies^a > 350 ft. 350 - 200 ft 199 - 100 ft <100 ft 4 4 Determined using Phosphorus Index Contributing Distance Well Poorly Drainage Class Somewhat Excessively OR Somewhat Poorly OR 3 3 Determined using Phosphorus Index Runoff Potential Excessively Moderately Well Very Poorly Recommended Some conservation Some conservation No conservation conservation practices practices are in place. practices are in place. practices are in place. are in place. Low potential for Moderate potential for High potential for Runoff Control 3 3 Very low potential for concentrated flow. concentrated flow. concentrated flow. concentrated flow. 14 a Includes Perennial and Intermittent streams with defined bed and bank, Lakes, Ponds, Open sinkholes, and Active private and public water sources. 14 Good Good

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.

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.

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 wetle 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
^a Includes Perennial and Intermittent streams with defined bed and b	14	14	14	14	14	14
^b If a field receives a rating of "2" in any two categories the field is no	Good	Good	Good	Good	Good	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								

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
- All setbacks including those specific to winter manure
 No winter manure application within 100 ft. of an about
- No winter manure application within 100 ft. of a wetle 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.

	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 - 0	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).







