DEQ-Style NMP Form Bullseye Feedlot MTG 010135 Renewal Application Dec 2023

Field ID: West Hwy | Year: 2024-2028 | Crop: corn silage | Acres: 24.8

xp. Yield: 250 bu/acre

P Index Results or P app from Soil Test: Olsen P 14 ppm | Manure Type: Solid

Method of Land Application: broadcast not immediately incorporated

When application will occur: Fall | Manure units: Tons

			units	N-based app *	P-based app	Source of information and/or notes
1		Crop Nutrient Needs	lbs/ac	294	128	Helena Chemical 10.06.2020 soil report
2		Credits from previous legume crops, or soil test	lbs/ac	18	28	Helena Chemical 10.06.2020 soil report
3		Residuals from past manure production	lbs/ac	0	0	
4		Nutrients supplied by commercial fert and biosolids	lbs/ac	0	0	
5		Nutrients supplied in irrigation water	lbs/ac	0	0	
6	(=)	**Additional nutrients**	**lbs/ac**	**276**	**100**	
7		Total N and P in manure	**lbs/ton** or lbs/1000 gal	15.1	9	Total Kjeldahl N available result from manure lab analysis dated 6/2/23
8	(x)	Nutrient availability factor	decimal number	0.6	1.0	Not tilled in within 48 hrs.
9		**Available nutrients in manure**	**lbs/ton** or lbs/1000 gal	**9.06**	**9**	
10		Additional nutrients	lbs/ac	276	100	
11	(/)	Available nutrients in manure	**lbs/ton** or lbs/1000 gal	9.06	9	
12	(=)	**Manure application rate**	**tons/ac** or 1000 gal/ac	**30.46**	**11.11**	P-index result is low/medium

Additional Information and Calculations

Acres:
24.8

Gallons per acre		Total gallons needed	
N-based app	P-based app	N-based app	P-based app
30463.6	11111.1	755,497	275,556

* Using Agvise soil test from Oct 2020 which accounts for credits of N in soil.

DEQ-Style NMP Form Bullseye Feedlot MTG 010316 Renewal Application Dec 2023

Field ID: Cove Ditch Year: 2024-2028 Crop: corn silage Acres: 78

xp. Yield: 40 tons/ac

P Index Results or P app from Soil Test: Olsen P 25 ppm Manure Type: solid

Method of Land Application: broadcast not immediately incorporated

When application will occur: fall Manure units: tons

			units	N-based app	P-based app	Source of information and/or notes
1		Crop Nutrient Needs	lbs/ac	364	48	Helena Chemical 10.06.2020 soil report
2	(-)	Credits from previous	lbs/ac	52	50	Helena Chemical 10.06.2020 soil report
3	(-)	Residuals from past	lbs/ac			
4	(-)	Nutrients supplied by	lbs/ac			
5	(-)	Nutrients supplied in	lbs/ac			
6	(=)	**Additional nutrients**	**lbs/ac**	**312**	**-2**	
7		Total N and P in manure	lbs/ton or lbs/1000 gal	15.1	9	Total Kjeldahl N available result from lab analysis dated 6/2/23
8	(x)	Nutrient availability factor	decimal number	0.6	1.0	
9		**Available nutrients in manure**	**lbs/ton or lbs/1000 gal**	**9.06**	**9**	Not tilled in within 48 hrs.
10		Additional nutrients	lbs/ac	312	-2	
11	(/)	Available nutrients in manure	lbs/ton or lbs/1000 gal	9.06	9	
12	(=)	**Manure application rate**	**tons/ac or 1000 gal/ac**	**34.44**	**-0.22**	P-index result is low/medium

Additional Information and Calculations

Acres: 78

Gallons per acre		Total gallons needed	
N-based app	P-based app	N-based app	P-based app
34437.1	-222.2	2,686,093	(17,333)

* Using Agvise soil test from Oct 2020 which accounts for credits of N in soil.

DEQ-Style NMP Form Bullseye Feedlot MTG 010316 Renewal Application Dec 2023

Field ID: Home | Year: 2024-2028 | Crop: corn silage | Acres: 69.4

xp. Yield: 40 ton/acre

P Index Results or P app from Soil Test: Olsen P 80 ppm

Method of Land Application: broadcast not immediately incorporated

When application will occur: fall

Manure Type: solid

Manure units: tons

			units	N-based app	P-based app	Source of information and/or notes
1		Crop Nutrient Needs	lbs/ac	378	0	Helena Chemical 10.06.2020 soil report
2		Credits from previous legume crops, or soil test	lbs/ac	38	160	Helena Chemical 10.06.2020 soil report
3		Residuals from past manure production	lbs/ac			
4		Nutrients supplied by commercial fert and biosolids	lbs/ac			
5		Nutrients supplied in irrigation water	lbs/ac			
6	(=)	**Additional nutrients**	**lbs/ac**	**340**	**-160**	
7		Total N and P in manure	lbs/ton or lbs/1000 gal	15.1	9	Total Kjeldahl N available result from manure lab analysis dated 6/2/23
8	(x)	Nutrient availability factor	decimal number	0.6	1.0	Not tilled in within 48 hrs.
9		**Available nutrients in manure**	**lbs/ton or lbs/1000 gal**	**9.06**	**9**	
10		Additional nutrients	lbs/ac	340	-160	
11	(/)	Available nutrients in manure	lbs/ton or lbs/1000 gal	9.06	9	
12	(=)	**Manure application rate**	**tons/ac or 1000 gal/ac**	**37.53**	**-17.78**	P-index result is low/medium

Additional Information and Calculations

Acres:
69.4

Gallons per acre		Total gallons needed	
N-based app	P-based app	N-based app	P-based app
37527.6	-17777.8	2,604,415	(1,233,778)

* Using Agvise soil test from Oct 2020 which accounts for credits of N in soil.

DEQ-Style NMP Form Bullseye Feedlot MTG 010316 Renewal Application Dec 2023

Field ID: Fox N S | Year: 2024-2028 | Crop: corn silage | Acres: 80.8

xp. Yield: 40 tons/ac

P Index Results or P app from Soil Test: Olsen P 43 ppm | Manure Type: solid

Method of Land Application: broadcast not immediately incorporated

When application will occur: Fall | Manure units: tons

			units	N-based app	P-based app	Source of information and/or notes
1		Crop Nutrient Needs	lbs/ac	374	15	Helena Chemical 10.06.2020 soil report
2		Credits from previous legume crops, or soil test	lbs/ac	42	86	Helena Chemical 10.06.2020 soil report
3		Residuals from past manure production	lbs/ac			
4		Nutrients supplied by commercial fert and biosolids	lbs/ac			
5		Nutrients supplied in irrigation water	lbs/ac			
6	(=)	**Additional nutrients**	**lbs/ac**	**332**	**-71**	
7		Total N and P in manure	lbs/ton or lbs/1000 gal	15.1	9	Total Kjeldahl N available result from manure lab analysis dated 6/2/23
8	(x)	Nutrient availability factor	decimal number	0.6	1.0	Not tilled in within 48 hrs.
9		**Available nutrients in manure**	**lbs/ton or lbs/1000 gal**	**9.06**	**9**	
10		Additional nutrients	lbs/ac	332	-71	
11	(/)	Available nutrients in manure	lbs/ton or lbs/1000 gal	9.06	9	
12	(=)	**Manure application rate**	**tons/ac or 1000 gal/ac**	**36.64**	**-7.89**	P-index result is low/medium

Additional Information and Calculations

Acres: 80.8

Gallons per acre		Total gallons needed	
N-based app	P-based app	N-based app	P-based app
36644.6	-7888.9	2,960,883	(637,422)

* Using Agvise soil test from Oct 2020 which accounts for credits of N in soil.

DEQ-Style NMP Form Bullseye Feedlot MTG 010316 Renewal Application Dec 2023

Field ID: Fox E W | Year: 2024-2028 | Crop: corn silage | Acres: 61.8

xp. Yield: 40 tons/ac

P Index Results or P app from Soil Test: Olsen P 59 ppm

Method of Land Application: broadcast not immediately incorporated

When application will occur: Fall

Manure Type: solid

Manure units: tons

			units	N-based app	P-based app	Source of information and/or notes
1		Crop Nutrient Needs	lbs/ac	386	15	Helena Chemical 10.06.2020 soil report
2		Credits from previous legume crops, or soil test	lbs/ac	30	118	Helena Chemical 10.06.2020 soil report
3		Residuals from past manure production	lbs/ac			
4		Nutrients supplied by commercial fert and biosolids	lbs/ac			
5		Nutrients supplied in irrigation water	lbs/ac			
6	(=)	**Additional nutrients**	**lbs/ac**	**356**	**-103**	
7		Total N and P in manure	lbs/ton or lbs/1000 gal	15.1	9	Total Kjeldahl N available result from manure lab analysis dated 6/2/23
8	(x)	Nutrient availability factor	decimal number	0.6	1.0	Not tilled in within 48 hrs.
9		**Available nutrients in manure**	**lbs/ton or lbs/1000 gal**	**9.06**	**9**	
10		Additional nutrients	lbs/ac	356	-103	
11	(/)	Available nutrients in manure	lbs/ton or lbs/1000 gal	9.06	9	
12	(=)	**Manure application rate**	**tons/ac or 1000 gal/ac**	**39.29**	**-11.44**	P-index result is low/medium

Additional Information and Calculations

Acres:
61.8

Gallons per acre		Total gallons needed	
N-based app	P-based app	N-based app	P-based app
39293.6	-11444.4	2,428,344	(707,267)

* Using Agvise soil test from Oct 2020 which accounts for credits of N in soil.