

Whole-farm Nutrient Balance

Operation: Strout Crossing, LLC **County:** Pike **Plan Saved:** 9/26/2011
Plan File: strout crossing8-25-11.mmp **State:** Illinois **Init. File Rev:** 5/21/2008
Plan Folder: S:\ProjectFiles\2011\11-105\CNMP\CNMP PDF - Revised 8-26-11 **Crop Years:** 2011-2015
Soils File Rev: 9/8/2010

Manure-spreadable Area

	N (Lbs)	P ₂ O ₅ (Lbs)	K ₂ O (Lbs)
Total Manure Nutrients on Hand at Start of Plan ¹	11,680	6,480	6,080
Total Manure Nutrients Collected ²	504,576	279,936	262,656
Total Manure Nutrients Imported ³	0	0	0
Total Manure Nutrients Exported ⁴	0	0	0
Total Manure Nutrients on Hand at End of Plan ⁵	48,295	26,794	25,140
Total Manure Nutrients Applied ⁶	468,225	259,291	243,575
Available Manure Nutrients Applied ⁷	439,662	259,291	243,575
Commercial Fertilizer Nutrients Applied ⁸	0	0	0
Available Nutrients Applied ⁹	439,662	259,291	243,575
Nutrient Utilization Potential ¹⁰	668,578	275,466	216,607
Nutrient Balance of Spreadable Acres ^{11*}	-228,916	-16,175	26,968
Average Nutrient Balance per Spreadable Acre per Year ^{12*}	-59	-4	7

1. Values indicate total manure nutrients present in storage(s) at the beginning of the plan.
2. Values indicate total manure nutrients collected on the farm.
3. Values indicate total manure nutrients imported onto the farm.
4. Values indicate total manure nutrients exported from the farm to an external operation.
5. Values indicate total manure nutrients present in storage(s) at the end of plan.
6. Values indicate total nutrients present in land-applied manure. Losses due to rate, timing and method of application are not included in these values.
7. Values indicate available manure nutrients applied on the farm based on rate, time and method of application. These values are based on the total manure nutrients applied (row 6) after accounting for state-specific nutrient losses due to rate, time and method of application.
8. Values indicate nutrients applied as commercial fertilizers and nitrates contained in irrigation water.
9. Values are the sum of available manure nutrients applied (row 7) and commercial fertilizer nutrients applied (row 8).
10. Values indicate nutrient utilization potential of crops grown. For N the value generally is based on crop N recommendation for non-legume crops and crop N uptake or other state-imposed limit for N application rates for legumes. P₂O₅ and K₂O values generally are based on fertilizer recommendations or crop removal (whichever is greatest).
11. Values indicate available nutrients applied (row 9) minus crop nutrient utilization potential (row 10). Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
12. Values indicate average per acre nutrient balance. Values are calculated by dividing nutrient balance of spreadable acres (row 11) by the number of spreadable acres in plan and by the length of the plan in years. Negative values indicate additional average per acre nutrient utilization potential and positive values indicate average per acre over-application.

* Non-trivial, positive values for N indicate that the plan was not properly developed. Negative values for N indicate additional nutrient utilization potential which may or may not be intentional. For example, plans that include legume crops often will not utilize the full N utilization potential for legume crops if manure can be applied to non-legume crops that require N for optimum yield. Positive values for P₂O₅ and/or K₂O do not necessarily indicate that the plan was not developed properly. For example, producers may be allowed to apply N-based application rates of manure to fields with low soil test P values or fields with a low potential P-loss risk based on the risk assessment tool used by the state. Negative values for P₂O₅ and K₂O indicate that planned applications to some fields are less than crop removal rates.

Non-manure-spreadable Area

	N (Lbs)	P ₂ O ₅ (Lbs)	K ₂ O (Lbs)
Commercial Fertilizer Nutrients Applied ¹	0	0	0
Nutrient Utilization Potential ²	69,480	32,580	27,854

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	N (Lbs)	P ₂ O ₅ (Lbs)	K ₂ O (Lbs)
Nutrient Balance of Non-spreadable Acres ^{3*}	-69,480	-32,580	-27,854
Average Nutrient Balance per Non-spreadable Acre per Year ^{4*}	-151	-71	-61

1. Values indicate nutrients applied as commercial fertilizers and nitrates contained in irrigation water.
2. Values indicate nutrient utilization potential of crops grown based on crop fertilizer recommendations.
3. Values indicate commercial fertilizer nutrients applied (row 1) minus crop nutrient utilization potential (row 2). Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
4. Values indicate average per acre nutrient balance. Values are calculated by dividing nutrient balance of non-spreadable acres (row 3) by number of non-spreadable acres in plan. Negative values indicate additional average per acre nutrient utilization potential and positive values indicate average per acre over-application.

* Non-trivial, positive values for N indicate that the plan was not properly developed. Negative values for N indicate additional nutrient utilization potential which may or may not be intentional. Positive values for P₂O₅ and/or K₂O do not necessarily indicate that the plan was not developed properly. For example, multiple year applications may have been planned during the final plan year(s) and these nutrients will not be utilized by crops in the current plan. Negative values for P₂O₅ and K₂O indicate that applications to some fields may have been delayed to allow the producer to apply the nutrients in accordance with their fertilization schedule.