LOGAN LABS
SOIL TESTING SERVICES

# Recommendation Report

**Bill McKibben, Independent Agronomist** 419-303-7053 (10 minutes please)EST

| NAME Snow Creek Source LLC | | Date 1/27/25 | | |
|---|---|---|---|---|
| Sample Identification | East Field | West Field | | |
| Lab Number | 17 | 18 | | |

| DESIRED VALUES | | | EVALUATION based on Soil Report | | | |
|---|---|---|---|---|---|---|
| NUTRIENT | General Crops | Specialty Crops | | | | |
| Calcium | 65% | 65% | Low | Low | | |
| Magnesium | 15% | 15-20% | High | High | | |
| Potassium | 4% | 6-8% | Low | Low | | |
| Phosphorous | 200#/A | 350#/A | Low | Low | | |
| Sulfur | 25 ppm | 25 ppm | Low | Low | | |
| pH | 6.2-6.5 | 6.2-6.5 | Low | Low | | |

| RECOMMENDED TO APPLY TO SOIL : pounds per 500 cubic feet **or** pounds 1000 square feet | | | | |
|---|---|---|---|---|
| Elemental Sulfur 90% | | | | |
| Fish Bone Meal 4-12-0 | | | | |
| Magnesium Sulfate (Epsom Salts) | | | | |
| Phosphate 11-52-0 | | | | |
| Potassium Sulfate 0-0-50 | | | | |
| K-Mag (Sul-po-Mag) | | | | |
| Boron (10%) | 0.4 | 0.4 | | |
| Manganese Sulfate (27%) | 0.5 | 0.5 | | |
| Zinc Sulfate 36% | 1.0 | 1.0 | | |
| Copper Sulfate 25% Cu | 0.2 | 0.2 | | |
| High Calcium Lime | 50 | 50 | | |
| Dolomite Lime | | | | |
| Gypsum | 25 | 25 | | |
| Cattle Manure | 200 | 300 | | |
| Blood meal | | | | |
| Nitrogen Levels at early growth stage. | OK | Low | | |

** Total applications over 6#/1000 ft2 with the exception of Lime, Gypsum, and Rock Phosphate should be split over a 40 – 60 day period unless incorporated 6-8". (multiply lb/1000 ft2 by 40 for lb/acre) . When in vegetable production Foliar feed molybdenum 1-2 times while in veg. stage especially for legumes and brassicas. Foliar feed silicon 3-4 times during the growing season. I prefer CropSil from Heartland Agronomics 317-432-2613

General Crops: Corn, Beans, Wheat, Lawn Ornaments
Specialty Crops: Vegetable, Hemp, Alfalfa, Fruit Trees

*On turf, core aerate prior to fertilizer application. Trace elements might be best dissolved in water and sprayed onto the soil directly. Long term maintenance is not included in the recommendations. Retest every 1-2 years.

Helpful Guidelines:

To determine the area of your garden/plot:

Length (ft) x width (ft) = square feet

Pounds per 500 cubic feet @ 12" = Pounds per 1000 square feet @ 6"

Pounds per 500 cubic feet or pounds per 1000 square feet x 40 equals pounds per acre.

| Nitrogen Requirements: | lb/acre | lb/1000ft2 |
|---|---|---|
| Vegetable Crops | 90-100 | 2.25-3.0 |
| Corn | 180-200 | 4.5-5.0 |
| Hemp | 120-150 | 3.0-4.5 |
| Pasture | 60 | 1.5 |
| Turf | 60-100 | 1.5-2.5 |
| Wheat | 90-110 | 2.4-2.75 |

Organic matter will provide some of the nitrogen for your crop as follows:

| %OM | lb N/ acre | lb/1000ft2 |
|---|---|---|
| 3 | 80 | 2.0 |
| 6 | 105 | 2.5 |
| 9 | 120 | 3.0 |
| 12 | 126 | 4.0 |

Calculating nitrogen need from a bag of compost (4-3-4)
This means 4% Nitrogen 3% Phosphorous 4% Potassium
Growing Vegetables need 2.25-3.0 (chart above) 3 divided by 4%
= 75# of compost / 1000ft2

If trace element inputs are not available, substitute Azomite at 10 lbs./1000ft2 or 400lb/acre.

What do the numbers on a fertilizer bag mean?
Example: 12-12-12
This means the fertilizer contains 12 Nitrogen – 12% Phosphorous – 12% Potassium

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