



















1602 Park West Dr. • PO Box 169 • Hastings, NE 68902
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Lab No.: 91629		SOIL ANALYSIS RESULTS			Date Reported: 04/12/2021						
Send To: 51209		GARFIELD COUTNY EXTENSION DREW WALTERS 1001 RAILROAD AVE RIFLE, CO 81650			 Hans Burken Agronomist						
Results For: LINDA HELMICH Field ID: MAIN Sample Identification: MIDDLE		Invoice No.: 634587 Date Received: 04/09/2021 Sample Depth: 0-8"									
GARDEN - VEGETABLES											
Acidic Neutral Alkaline _____ 4.0 _____ 5.0 _____ 6.0 _____ 7.0 _____ 8.0 _____											
Soil pH 7.7 											
_____ Very Low _____ Low _____ Medium _____ High _____ Very High											
Nitrate Nitrogen (NO3-N), ppm		6									
Organic Matter, %		10.3									
Phosphorus (P), ppm		607									
Potassium (K), ppm		536									
Sulfur (S), ppm		76									
Calcium (Ca), ppm		6280									
Magnesium (Mg), ppm		506									
Sodium (Na), ppm		86									
Zinc (Zn), ppm		54.4									
Iron (Fe), ppm		176									
Manganese (Mn), ppm		59.0									
Copper (Cu), ppm		2.3									
_____ Suitable _____ Caution _____ Warning _____											
Soluble Salts (EC), mmho/cm		0.42									
Excess Lime (i)		HI									
Cation Exchange Information:		<u>% H</u>		<u>% K</u>		<u>% Ca</u>		<u>% Mg</u>		<u>% Na</u>	
CEC = 31 meq/100g		0		4		81		14		1	
Fertilizer Recommendations		GARDEN - VEGETABLES									
(lbs. per 1000 Sq. Ft)											
Nitrogen		1.2									
Phosphorus (P ₂ O ₅)		0.0									
Potassium (K ₂ O)		0.0									
Zinc		0.0									
Sulfur		0.0									
Manganese		0.0									
Copper		0.0									
Magnesium		0.0									

The reported analytical results apply only to the sample as it was supplied.

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Results For:	LINDA HELMICH	Invoice No.:	634587	
Field ID:	MAIN	Date Received:	04/09/2021	
Sample Identification:	MIDDLE	Sample Depth:	0-8"	
<p>CAUTION: The current soluble salt level is elevated above normal levels. Growth and development salt sensitive plant species may be affected. Soluble salts may accumulate because of minerals that are naturally present in the irrigation water or because the internal soil drainage is restricted and prevents accumulated salts from being leached below the plant root zone. Check for soil drainage restrictions (like soil compaction or soil layers). Check the quality of water used for irrigating. . Soil test routinely to monitor changes in soluble salt levels.</p> <p><i>"Soluble salts" are a measurement of the comparative amount of minerals dissolved in the soil water. Excess soluble salts restrict the ability of the root system to extract water from the soil. Plant species differ in their ability deal with excess soluble salts. Elevated soluble salts may provide an additional stress to growing plants if other problems are observed.</i></p>				
<p>EXCESS LIME - WARNING: "Excess lime" refers to the comparative presence of very fine lime particles in the soil as NO, LO, or HI. High excess lime, an alkaline soil pH, and high soil nitrate levels often contribute to "iron deficiency chlorosis (IDC)". IDC is caused by an imbalance of iron within the plant. The severity of IDC is different among plant species, varieties, or hybrids.</p>				
<p>POTENTIAL TREATMENTS: Applying 2 to 3 lb of elemental sulfur, 12 to 18 lb of ferric sulfate, or 15 to 20 lb. of aluminum sulfate per 1000 sq. ft. can help increase soil acidity, lower soil pH, and reduce IDC problems. Overapplying these materials will increase the likelihood of problems from soluble salts or excessively low pH. Suggest applying the acidifying material in early fall and incorporating into the soil when feasible. Water the treated area well during growing season. Collect soil samples in the following fall to monitor soil pH changes to make adjustments as needed.</p>				
<p>GARDEN VEGETABLES - Some suggested nitrogen application schedules</p> <p>Crucifers (broccoli, cabbage, cauliflower): Sidedress about half of the required nitrogen about one to two weeks after planting. Apply the remainder of the required nitrogen about two weeks before harvest.</p> <p>Leafy greens</p> <ul style="list-style-type: none"> Lettuce, spinach, mustard: Broadcast the required nitrogen before planting and incorporate into the soil. Kale, collards: Sidedress the required nitrogen when plants reach one-third size. <p>Legumes (beans, peas): Apply the required nitrogen before or at planting.</p> <p>Perennials (asparagus, rhubarb): Apply about one-third of the required nitrogen to established plantings before the spears appear in spring. For asparagus, apply the remainder of the required nitrogen at the end of harvest. For rhubarb, sidedress the remainder of the nitrogen requirement in late spring or early summer.</p>				

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Field ID:	MAIN	Date Received:	04/09/2021	
Sample Identification:	MIDDLE	Sample Depth:	0-8"	

Root crops

- **Carrots, radish, beets, turnips:** Broadcast the the rquired nitrogen before or at planting.
- **Onions:** Sidedress the required nitrogen at two to three weeks after emergence.
- **Potatoes:** Apply the required nitrogen about three to four weeks after emergence when plants are 6 to 8 inches tall.

Sweet corn: Band about a third of the required nitrogen at planting. Sidedress the remainder of the rquired nitrogen when the corn plants are 8 to 12 inches tall. Make a second sidedress application in sandy soils about two weeks later.

Transplants (tomatoes, peppers, eggplant): Use a starter solution at planting. Sidedress the required nitrogen when when fruits are about one inch in diameter.

*(Each 1 pound of nitrogen per 1000 square feet is equivalent to about ¼ ounce of actual nitrogen per 100 feet of row when banded. For example: about 2½ ounces of a 10-0-0 fertilizer will provide ¼ ounce of nitrogen.)
The suggested nitrogen application schedules assume quick-release fertilizer materials. The application timing must be adjusted when using slow-release fertilizers and when using manure or other organic materials.)*

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