















KELLER FARMS NEMATODE TEST RESULTS

Application Date	9/25/2015	7/9/2016	8/2/2016	8/19/2016	10/10/2016	10/10/2016	
			Promax 1Gal/Acre			Untreated	
Root Knot (Northern)	0	10			0	0	0
Root Knot (Columbian)	0	10			0	0	0
Root Lesion	140	500			0	180	1,400
Stunt	50	40			30	0	10
Spiral	0	0			0	10	60

STUKENHOLTZ LABORATORY, INC.

P.O. BOX 353 ADDISON AVENUE EAST . . . TWIN FALLS, ID. 83303-0353 . 1-800-759-3050
 PHONE: (208) 734-3050 TOLL FREE: (800) 759-3050 FAX: (208) 734-3919

DEALER: HURST, KELLY, BLACKFOOT ID
 GROWER: HUMA GRO
 154

POTATOES

SL No: 154-620

Field: KELLER
 Killdate: 9/10/2016

DATE SAMPLED	2016	06/29	07/01	07/06	07/13	07/20	07/27	08/03	08/10
Report No.		38370	39439	41098	44461	47677	51062	54605	59208
Total N, %									1.16
NO ₃ -N, ppm		15300	14800	12200	9400	6600	4500	2800	2000
Phosphorus, %			0.19	0.20	0.19	0.17	0.14	0.14	0.11
Potassium, %			11.47	12.02	10.80	11.09	10.34	10.99	11.24
Calcium, %			1.83	1.81	1.73		1.93	2.40	2.75
Magnesium, %			0.33	0.39	0.32		0.40	0.55	0.76
Sulfur, %			0.21	0.18	0.20		0.20	0.19	0.24
Zinc, ppm			42	39	31		25	34	58
Iron, ppm			142	172	92		105	91	78
Manganese, ppm			29	28	19		18	22	20
Copper, ppm			8	7	6		8	6	5
Boron, ppm			32	33	31		34	31	36

Soil NO₃-N, ppm

Salts, mmhos/cm

Sample Date

RECOMMENDATIONS

	In-the-water-or	Broadcast						
Units N	35	40	40	45	45	40	30	0-25
Units P ₂ O ₅		30	30	20	30	30	20	20
Units K ₂ O		0		0	0	0	0	0
Units S		0	0	0		0	0	0

FOLIAR NUTRIENTS

	Ib/Acre							
N	0	2	2	2	2	2	2	2
Units P ₂ O ₅		5	5	5	5	5	5	5
Units K ₂ O		0	0	0	0	0	0	0
Ca		0	0	0		0	0	0
Mg		0.5	0.5	0.5		0.5	0	0
S		0	0	0		0	0	0
Zn		0	0.05	0.05		0.15	0	0
Fe		0.10	0	0.10		0	0	0
Mn		0.30	0.30	0.30		0.30	0.10	0.20
Cu		0.05	0.05	0.10		0.05	0.05	0.05
B		0.15	0.15	0		0	0	0

The above safe and effective foliar nutrient spray recommendations are made for inorganic products, use of 10 gallons of water per acre and application during cool parts of the day. Substitutions with organic products and less water per acre may alter the above safe and effective application rates. Plants should not be under stress when foliar nutrients are applied. Do not exceed label rates of any product used to supply above recommendations.

SUPERVISED BY: Paul Stukenholtz

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HURST, KELLY
571 WEST 200 SOUTH

154 208/681-1132
/000-0000

Report No.: 27300
Date Received: 4/17/16
Date Reported: 4/18/16

BLACKFOOT ID 83221
GROWER: KELLER, RICK

Soil Test Data	Sample 1	Sample 2	SAMPLE IDENTITY	Sample 1	Sample 2
pH	8.1	H	HUMGROW TRIAL		
SALTS, mmhos/cm	0.8	L	POTATOES		
CHLORIDES, ppm	18	L	YEILD GOAL	400 CWT	
SODIUM, meq/100g	0.2	VL	ACRES		
CEC, meq/100g	14.8	M	Past Crop T/Acre	GRAIN 1	
EXCESS LIME, %	6.0	H	MANURE T/Acre	0	
ORGANIC MATTER, %	1.57	M	PREV. APPLIED NUTRIENTS 0		
ORGANIC N, lb/Acre	65	M	RECOMMENDATIONS, lbs or Units Actual Nutrients per Acre		
AMMONIUM-N, ppm	5.4	L			
NITRATE-N, ppm	6	L	NITROGEN	230	<i>Preplant</i>
PHOSPHORUS, ppm	17	M	P ₂ O ₅ - PHOSPHATE	220	<i>120 N as 21-0-0-24</i>
POTASSIUM	205	M	K ₂ O - POTASH	100	<i>200 as 11-52-0</i>
CALCIUM, meq/100g	12.3	VH	CALCIUM	0	<i>100 as 0-0-60</i>
MAGNESIUM, meq/100g	1.6	M	MAGNESIUM	15	<i>15 as K-Mag</i>
SULFATE-S, ppm	15	M	SULFATE - SULFUR	50	<i>4 as 30% Zinc</i>
ZINC, ppm	1.7	M	ZINC	4	<i>(can be supplied by</i>
IRON, ppm	7.2	M	IRON	0	<i>Wolftron Zinc)</i>
MANGANESE, ppm	3.9	M	MANGANESE	4	
COPPER, ppm	1.3	M	COPPER	0	
BORON, ppm	1.25	H	BORON	0	
SOIL TEXTURE	See Table	See Table	ELEMENTAL SULFUR	0	

RATINGS: VL - Very Low L - Low M - Medium H - High VH - Very High

ACTUAL AND RECOMMENDED PERCENT OF CEC								CEC / SOIL TEXTURE		
S										
A										
M										
P	Actual %	Recom.	Actual %	Recom.	Actual %	Recom.	Actual %	Recom.	0-5 Sand	
L	Potassium	Potassium	Calcium	Calcium	Magnesium	Magnesium	Sodium	Sodium	5-12 Loamy Sand	
E										
1	4.6	3.0-6.0%	83.1	65-80%	10.8	15-25%	1.4	< 3.0%	12-18 Sandy Loam	
2										18-24 Silt Loam
									24-36 Clay Loam	
									36+ Clay	

R Crop1: Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.
E Crop1: Excessively Calcareous soils respond to 100-200 lbs/ac of Elemental Sulfur or Acid forming fertilizers.

M
A
R
K
S

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Supervised by: Paul Stukenholtz



IAS Laboratories

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SOIL ANALYSIS REPORT

Page 1

Today's Date: 10/19/2016
Grower: Keller Farm
Submitted By: Michael Gardner
Send Report To: Bio Huma Netics, Inc.
Report Number: 8854385
Crop: Potatoes
Date Received: 10/18/2016

VL= Very Low
L= Low
M= Medium
H= High
VH= Very High

Sender Sample Id	Depth	Lab #	pH	Calcium (Ca) PPM	Magnesium (Mg) PPM	Sodium (Na) PPM	Potash (K) PPM	Iron (Fe) PPM	Zinc (Zn) PPM	Manganese (Mn) PPM	Copper (Cu) PPM	Salinity (EC x K) dS/m	Nitrate Nitrogen (NO3-N) PPM	Phosphorus (Bicarb - Soluble P) PPM	Computed % Sodium (ESP)	Sulfur (SO4-S) PPM	Boron (B) PPM	Free Lime Level
Post Harvest		515	8.2	6600 VH	230 H	41 L	330 M	8.8 M	3.5 M	12.0 M	1.2 H	.7 L	25.0 H	37.0 H	.5	14 M	.49 L	High

SOILCRAFT

