















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:9/10/2018

DATE SAMPLED	2018	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, %									1.18
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	0
Units S			0	0	0	0	0	0	0
FOLIAR NUTRIENTS			lb/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 1	Sample 2
pH	8.1	H	SAMPLE IDENTITY	HUMGROW TRIAL
SALTS, mmhos/cm	0.8	L	CROP	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
PHOSPHORUS, ppm	17	M	P ₂ O ₅ - PHOSPHATE	220
POTASSIUM	205	M	K ₂ O - POTASH	100
CALCIUM, meq/100g	12.3	VH	CALCIUM	0
MAGNESIUM, meq/100g	1.6	M	MAGNESIUM	15
SULFATE-S, ppm	15	M	SULFATE - SULFUR	50
ZINC, ppm	1.7	M	ZINC	4
IRON, ppm	7.2	M	IRON	0
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

Handwritten notes:
 Preplant
 120 N as 21-0-0-24
 200 as 11-52-0
 100 as 0-0-60
 15 as K-Mag
 4 as 30% Zinc
 (can be supplied by Wolftron Zinc)

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

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

R Crop 1: Split application of N is advised. Monitor crop with plant tissue tests and add N as needed.
 E Crop 1: 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

2515 East University Drive
Phoenix, Arizona 85034
(602) 273-7248

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: 6654385
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

