KARL HAIST- 2018 OVGPG CHAMPION (2416.5#)
5 All Time- New York State Record- OVGPG Site Record
Alan Gibson- Ohio Valley Giant Pumpkin Growers

Karl Haist and his wife, Beverly, reside in Clarence Center, New York (east of Buffalo). They have three children and six grandchildren. Karl is a school bus mechanic and he also enjoys deer hunting. Karl's last name should be pronounced "Heist".

Karl started growing giant pumpkins and squash in 2001. You can check out his diaries for the past four years on bigpumpkins.com. His user name is "Nub".

Some of the fruits produced:

2018 2416.5#- 2027#- 2005#- 1962# 3rd place- GPC "Grower of the Year"
2017 2003#- 1789#
2016 1969#- 1964.5#- 1615#- 1511.5# (squash)
2015 1781.5#- 1533#- 1415#- 1172.5# (squash)

Karl used to grow eight plants but has cut down to four by eliminating the squash.

PLANT SIZE (Layout)

Four plants were grown on 3600 square feet (30' x 120'). Each plant is 30' x 30' (900 square feet) with 15' side vines. There is a 10' buffer area behind the plant where extra rooting can occur (no vines).

This patch had been rested two years. The Christmas tree style of pruning was used with the main vine terminated at 30 feet. Wind protection (slows down the deer also) is provided by snow fence on all four sides of the patch.

SOIL PREPARATION (Cover Crops)- FERTILITY

This is a sandy loam topsoil (12"- 18" deep). It is well drained with a pH of 7.9 in April when the soil was plowed. Ph was lowered to 7.1 by June.

Off year Amendments (2017): 25 cubic yards of leaf compost plus three cover crops of oats- mustard- rye.

Spring (2018) amendments: 2000# chicken compost- humic acid- kelp meal- ammonium sulphate- manganese sulphate- magnesium sulphate- zinc sulphate- boron and 10-20-20.

Biological products used in season: WOW Super Starter Paks- WOW Pumpkin Pro- Rootshield Plus- Biogrow Endo plus Mycorrhizae.

Run through the irrigation system (wiz heads): TKO, 0-0-25, Calcarb, MicroTek, CalMag, Companion, Recover and Essential.

FOLIAR DISEASES

Some of the products used were Bravo- Eagle- Cease- Phyton 27.

INSECT CONTROL

Products used were; Talstar- merit- Sevin- Ortho tree and Shrub.

SOIL TESTS- TISSUE TEST

Both 2018 soil tests and the tissue test can be found at the club's website: ovgpg.com under "Articles- Karl Haist- 2018 OVGPG Champion".

IRRIGATION

Karl has several 275 gallon totes for water storage (city water). Wiz heads provide the overhead water. 2018 was hot and dry so watering was essential to Karl's success.

SEED STARTING

Started on April 20 in 5" peat pots (under 4' gro light). Transplanted to the 8' x 12' plastic huts on April 27. Heat lamps are used- no heating cables.

Seeds planted were: (2) 2003 Haist- 1867.5 Barron- 1742 Wolf. All were new and unproven seeds.

WEED CONTROL

No Roundup was used due to windy conditions. Tillage and hand weeding were the order of the day.

POLLINATION

The 2416.5 Haist was pollinated at 18' on the main vine on June 22 (5 lobes). The male pollinator was the 1742 Wolf. Final results on the 2416.5 (grown on the 2003 Haist)" 480" OTT Est Wt.- 2204# +10% heavy

PROTECTION

Double mill fabric is used under the pumpkin with several inches of sand on top of the mill fabric. Sheets over the pumpkins all season with blankets on the cold nights. Scrap swimming pool covers protect the plants when frost is expected.

Congratulations to Karl and Beverly on their record setting year. We are glad to have them as members of the Ohio Valley Giant Pumpkin Growers. For more OVGPG interviews, go to our website at ovgpg.com "articles".

Western Laboratories, Inc.
P.O. Box 1020 • 211 Highway 95 • Parma, ID 83660
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http://www.westernlabs.com

Lab No:
1190

Test # 11
Reported: 6/26/2018
Grower: Karl Haist
Sample ID: 2003 Haist
Irrigation:
Crop: Atlantic Giant Pumpkin

Dealer No: PD
Dealer : Karl Haist
Address 7555 Salt Rd
Clarence Center NY 14032

GIANT PUMPKIN PLANT ANALYSIS REPORT

PLANT NUTRIENTS	SUFFICIENCY RANGE	YOUR TEST RESULTS		NUTRIENT SUGGESTIONS IN OUNCES PER 1000 SQ.FT.		
				FOLIAR	INJECTION OR WATER RUN	YOU APPLIED
NITRATE NO_3 - ppm	6775	10531				
NITROGEN N - %	-		N			
PHOSPHORUS P - %	0.81 - 1.2	0.36	P	0.55	3.64	
POTASSIUM K - %	7.5 - 12.0	11.93	K			
SULFUR S - %	.23 - .5	0.60	S			
CALCIUM Ca - %	.5 - 2.25	1.01	Ca			
MAGNESIUM Mg - %	.25 - .48	0.23	Mg	0.09	1.82	
ZINC Zn - ppm	42 - 75	52	Zn			
MANGANESE Mn - ppm	25 - 75	82	Mn			
COPPER Cu - ppm	13 - 45	9	Cu	0.04	0.07	
IRON Fe - ppm	75 - 500	252	Fe			
BORON B - ppm	24 - 70	35	B			

	N	P	K	S	Ca	Mg	Zn	Mn	Cu	Fe	B
HIGH RANGE	•			•				•			
SUFFICIENT RANGE			•		•		•			•	•
DEFICIENT RANGE		•				•			•		

To get how many oz. per 1000 sq.ft. you need to apply for each product, divide the % nutrient that is in the product (recommendation/%nutrient in product). Example if N recommendation is 7 oz per 1000 sq.ft. and the product has 15% N then 7/.15 = 46.6 oz of 15% N per 1000 sq.ft..

John P. Taberna, Soil Scientist

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800-658-3858

Lab Number: 6188

Date: 6/4/2018
Client: PD
Gardner: Karl Haist
Garden ID:

ATLANTIC GIANT PUMPKIN SOIL REPORT

pH WATER EXTRACT	pH SMP BUFFER	pH CaCl	SOLUBLE SALTS (EC)	LIME	% OM
7.1		6.7	0.38	0.0	2.8
EVALUATION					
Neutral			Normal	Good	Medium
POUNDS PER ACRE					

PARTS PER MILLION-PPM			
NITRATE	AMMONIUM	PHOSPHORUS	
NO3-N (PPM)	NH4-N (PPM)	P(PPM)	P BRAY
11	3	68	
Adequate		High	
33	9	204	

PARTS PER MILLION-PPM									
POTASSIUM K	SULFUR S	CALCIUM Ca	MAGNESIUM Mg	SODIUM Na	ZINC Zn	COPPER CU	MANGANESE Mn	IRON Fe	BORON B
396	40	1925	174	131	6.2	1.7	5	67	2.7
EVALUATION									
Adequate	Adequate	Medium	Low	OK	Very High	Adequate	Low	Adequate	High
POUNDS PER ACRE									
1188	120	5775	522	393	18.6	5.1	15	201	8.1
Meq/100 GRAMS SOIL								CEC by sum of cations	
1.0		9.6	1.5	0.6				12.7	

Texture	Sandy Loam
Cation Exchange Capacity-CEC	12
Percent Base Saturation	105
TBS%	5

BASES	IDEAL	YOURS
Calcium-% of CEC	65-80	78
Magnesium-% of CEC	10-20	12
Potassium-% of CEC	2-6	8
Sodium-% of CEC	< 5	5
Hydrogen-% of CEC	< 15	

Balance	Ideal	Yours	Evaluation	Watch
N:S	10:1	0.4:1	Low	watch N
Ca:Mg	6-20:1	11:1	ok	
Ca:K pH >7	15:1	5:1	Low	watch Ca
Ca:K pH <7	10:1	:1		
Ca:P pH >7	100:1	:1		
Ca:P pH <7	40:1	:1		
P:Zn	15:1	11:1	Low	watch P
P:Mn	4:1	13.6:1	High	
P:Cu	25:1	40:1	High	watch Cu
Zn:Cu	3:1	3.6:1	High	watch Cu
Mn:Zn	3:1	1:1	Low	watch Mn
Mn:Cu	7:1	3:1	Low	watch Mn
K:B	200:1	147:1	Low	watch K
Mg:K	2:1	0.4:1	Low	watch Mg

"Always practice the laws of Agronomy."

John P. Taberna, Soil Scientist

Lab Number	6188

NUTRIENT SUGGESTIONS FOR ATLANTIC GIANT PUMPKIN			
POUNDS PER 1,000 SQUARE FEET		OUNCES PER 1,000 SQUARE FEET	
Nitrogen	3.4	Zinc	.3
Phosphorus	2.1	Plant Food Iron	
Potassium	1.2	Manganese	2.9
Sulfur	.5	Copper	.1
Gypsum		Boron	
Lime			
Magnesium	.7		

**** Split apply nitrogen. Do not apply more than five pounds of fertilizer on established vegetation at one time. Always irrigate following fertilization on established crop. Over and under irrigation is a major cause of poor plant appearance.***

**Actual product is based on SO4 solutions. If using a chelate divide actual amount by factor 5 due to efficacy of chelates.*

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Lab Number **4120**

Date: 4/2/2018
Client: 1-102
Gardner: Karl Haist
Garden ID: East Patch

ATLANTIC GIANT PUMPKIN SOIL REPORT

pH WATER EXTRACT	pH SMP BUFFER	pH CaCl	SOLUBLE SALTS (EC)	LIME	% OM
7.9		7.4	0.07	2.3	4.3
EVALUATION					
Moderately Basic			Normal	Potential Sealing	Medium
POUNDS PER ACRE					

PARTS PER MILLION-PPM			
NITRATE	AMMONIUM	PHOSPHORUS	
NO3-N (PPM)	NH4-N (PPM)	P(PPM)	P BRAY
6	1	57	
Very Low		Adequate	
18	3	171	

PARTS PER MILLION-PPM									
POTASSIUM K	SULFUR S	CALCIUM Ca	MAGNESIUM Mg	SODIUM Na	ZINC Zn	COPPER CU	MANGANESE Mn	IRON Fe	BORON B
210	9	2517	293	33	6.5	2.6	2	73	1.4
EVALUATION									
Adequate	Very Low	High	Adequate	OK	Very High	High	Very Low	Adequate	High
POUNDS PER ACRE									
630	26	7551	879	99	19.5	7.8	6	219	4.2
Meq/100 GRAMS SOIL								CEC by sum of cations	
0.5		12.6	2.4	0.1				15.7	

Texture	Loam
Cation Exchange Capacity-CEC	16
Percent Base Saturation	105
TBS%	5

BASES	IDEAL	YOURS
Calcium-% of CEC	65-80	78
Magnesium-% of CEC	10-20	15
Potassium-% of CEC	2-6	3
Sodium-% of CEC	< 5	1
Hydrogen-% of CEC	< 15	3

Balance	Ideal	Yours	Evaluation	Watch
N:S	10:1	0.8:1	Low	watch N
Ca:Mg	6-20:1	9:1	ok	
Ca:K pH >7	15:1	12:1	Low	watch Ca
Ca:K pH <7	10:1	:1		
Ca:P pH >7	100:1	:1		
Ca:P pH <7	40:1	:1		
P:Zn	15:1	9:1	Low	watch P
P:Mn	4:1	28.5:1	High	
P:Cu	25:1	22:1	Low	watch P
Zn:Cu	3:1	2.5:1	High	watch Cu
Mn:Zn	3:1	0:1	Low	watch Mn
Mn:Cu	7:1	1:1	Low	watch Mn
K:B	200:1	150:1	Low	watch K
Mg:K	2:1	1.4:1	Low	watch Mg

"Always practice the laws of Agronomy."

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Lab Number	4120

NUTRIENT SUGGESTIONS FOR ATLANTIC GIANT PUMPKIN			
POUNDS PER 1,000 SQUARE FEET		OUNCES PER 1,000 SQUARE FEET	
Nitrogen	3.5	Zinc	.2
Phosphorus	2.4	Plant Food Iron	
Potassium	5.5	Manganese	4
Sulfur	1.2	Copper	
Gypsum		Boron	.2
Lime			
Magnesium	.7		

**** Split apply nitrogen. Do not apply more than five pounds of fertilizer on established vegetation at one time. Always irrigate following fertilization on established crop. Over and under irrigation is a major cause of poor plant appearance.***

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