HOLLAND'S LAND O' GIANTS



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We have our new DVD "How I Grew the World Champion 2,363" available at the 10% discount.

HOW I GREW THE 2,363 POUND PUMPKIN

By Joel Holland

Early Season and Patch Preparation

2017 was a year of contrast. Late Winter and Spring brought us record rains. In June the weather changed abruptly from cool and wet to warm and dry. In July and August we set a record of 55-days in a row without measurable rain. We received just .03-inches in the official rain gauge at Sea-Tac Airport that stopped the record, and then we went almost another rainless month. We really need it to be warm and dry here in Western Washington in order to be nationally competitive. When we have a wet summer it can stay cloudy and cool for extended periods, resulting in slow fruit growth. When I had the World Record in 1992, the summer was very similar to what we had in 2017.

Early on, I was behind, as evidenced by a 10-day delay in getting the cover crop turned under. I like to have the cloches set up on prepared soil before I start my seeds indoors. This season, because of the weather it was just not possible. I went ahead and started my seeds on April 18th, hoping for a dry spell in order to work the soil and erect the cloches before my usual set-out date of around May 5th.

One change I made in order to save time was to abandon the use of the 16' X 16' cloches. I decided to go with some pre-built 7' X 10' PVC frames that require less prepared soil area and also go up very quickly. The drawback to using these smaller units is that the plants outgrow them before the weather is conducive to having a plant out in the open. Soil heating cables helped overcome cool soil conditions.

I realized I had a special opportunity with the 2,145 McMullen plant. The plan for this plant was to prepare the soil around its 7' X 10' enclosure as soon as possible, and then construct a larger cloche over the top. The weather allowed me to accomplish this and the smaller cloche was removed and carried out one end of the larger temporary greenhouse.

About the middle of June it was as if a switch had been thrown, the days suddenly became warm and dry. I was still about a week behind in plant development. The decision was made to just set the 1st female on the main of each of my 6 plants and just go with that pumpkin, rather than proceed with a selection process. All females on the laterals were removed before opening. Once I was reasonably sure that the 1st female on the main was set, I removed subsequent females on that vine as well. Because I was able to set up the one larger cloche over the 2,145 plant, a nice early pollination date of June 24th was achieved about 10-feet out on the main. We have cool nights in Western Washington and the pumpkins typically start out slowly and take longer to reach maturity. Our warmest monthly average night lows are in July at 55.3-degrees and August at 55.7-degrees. This year we had many more nights in the low 60's than most seasons.

Plant Pattern and Spacing

The 6 plants were grown in a modified Christmas tree pattern. The plants were on 27-foot centers with 1-foot paths between each. This allowed laterals of 13-feet on each side of the mains that grew east to west. There was

10-feet of space behind the plant or to the East. The first set of laterals were each allowed to grow 3 or 4 tertiary vines and these filled in that space. The first set of laterals were actually angled back towards the east, so the tertiaries were shorter the farther they were out on those laterals. I feel having this 10-feet of cultivated fertilized soil allows more root development than when plants are back-to-back, or have a walkway or uncultivated area close behind the plant. I use a 16" X 8-foot strip of 5/8-inch outdoor plywood to access the east end of the plant. In front of the plant, or in the direction in which the main vine was growing there was 35-feet of cultivated area. Each plant didn't entirely use all of this space, but averaged between 900 and 1,000 square feet. Generally I turn the main at some point to grow south and treat it as the final lateral on that side. I keep each lateral between the base of the plant to near where the pumpkin is set and take every other one off past the pumpkin. I pinch the lateral bud that wants to grow right where the pumpkin is set right away, as well as the first one on each side of the fruit. I let the second lateral on either side of the pumpkin grow out 3 to 4-feet before heading them back. They will need to come off at some point, but early on they provide some shade for the small pumpkin. I feel taking every other lateral on each side off past the pumpkin helps transition the plant from vegetative growth and more into fruit development.

Weed control early on is accomplished by tilling out ahead of the plant in strips where Pumpkin Power and Mycorrhizae are added. I am careful to stay well out from where roots are developing and we have a segment on one of our DVDs concerning this. Later on and in between the laterals I use a scuffle hoe with about an 8-inch blade that can be run back and forth just under the surface. The weed free compost material I use to cover the vines also is helpful. I plant a winter cover crop so we don't get a lot of over-wintering type weeds and grasses.

Fertilizer Program

I decided to modify the fertilizer program that I have used for years, partly because I started out behind, and also knowing I had an excellent opportunity with the 2,145 McMullen seed. The plan was to increase the application rates on most of the granular products by 25% to 40%. I also intended to increase the frequency of my foliar applications from weekly to every 5-days, and also step-up the concentration by the same 25% to 40%. I used the fertilizer schedule as posted on our website, www.hollandsgiants.com, but with those modifications I have discussed. My soil is naturally lower than optimal in Potassium, Calcium, Magnesium, Sulphur, Boron and Manganese, so I addressed these issues over and above the fertilizer schedule. The Calcium and Magnesium were boosted with Dolopril Super Sweet at 3-pounds per 100-square feet. Our soil also tends to be acidic, so this helped raise the pH to be close to my target of 6.8. At this pH (potential Hydrogen) nutrient, availability is ideal and Mycorrhizal Fungi activity is strong at just under a neutral soil pH. Langbeinite was used at 2-pounds per 100square feet to improve levels of Potassium, Magnesium, and Sulphur. Manganese and some additional Sulphur was supplied with an application of our Manganese Sulphate granular at 1-pound per 1,000-square feet. Boron was added to the foliar schedule, for this I used Solubor. Rather than apply it as a stand-alone spray, I combined it with every other application of Soluble Calcium Spray, as it helps with the uptake of this vital element. Because Manganese and Boron are micro-nutrients I didn't increase the concentration levels. The other foliar ingredient that didn't get a boost in concentration was the Amino-Acid Bio-Activator. Since it was being applied more frequently with the turbo-charged foliar regimen, I left the concentration at label recommendation. The Pumpkin Power 9–3–4 All-Organic was tilled into the growing beds at 2.5-pounds per 100-square feet. In the trench it was increased slightly from \(\frac{1}{2}\)-cup per 3-feet of vine to 1/3-cup. I sometimes combined sprays if time was short. The Soluble Seaweed Power 1–1–17 seemed to team up well with either the Soluble Calcium Powder or the Soluble Fish Powder 12-1-1. Normally I taper off with the Soluble Fish and start with the Blossom Booster & Fruit Finisher 0-52-34 on June 10th. As I was still running behind on plant size, I continued with Soluble Fish Powder 12-1-1 until June 20th. I slightly over-lapped and phased in the 0-52-34 beginning on June 15th.

Pests and Disease

We are fortunate in the Northwest as far as insect pests go. We have no squash vine borers, squash bugs and very few cucumber beetles. Black aphids can be a problem but they are easily controlled with our all-organic garlic based Bio-Repel, or the plant oil based Pest Out.

Our program for disease control centered on alternating sprays of Soluble Companion Powder, Actinovate and Fosphite. The Fosphite is known as a "Reduced Hazard Fungicide". Fosphite, a J.H. Biotech product that we distribute, is much more concentrated than products called Phosphites. Our Mycorrhizal Fungi program and Rootshield rounded out our strategy against disease. I did work more BioGrow Endo Plus, 4-species Myco into the soil than normal as well. Initially I tilled in 4-pounds per growing area. Whenever I tilled the soil out ahead of the plant I worked in BioGrow Endo Plus at 2-pounds per 100-square feet. In the trenches I used 2-Tablespoons at each leaf axil.

This season I made more use of our premium 9-species Soluble Myco called Soluble Maxx. On my plants that grew the 2,363 and the 1,790 I also wet down the trench area with the Soluble Maxx in addition to using the BioGrow Endo Plus at each leaf axil. All plants were watered in when set out with Soluble Maxx, which contains 9-species of Mycorrhizal Fungi in a matrix of fine Soluble Seaweed Powder. The Granular Rootshield was working into the soil at 2-pounds per planting site, plus 2-Tablespoons in each

planting hole. Two weeks after the plants were set out, a drench with the Soluble Rootshield was done around each small plant.

Watering

We had both soaker hoses under the 2,145 plant, plus Whizzers and Perfect Pin Nozzles above the canopy. Watering is accomplished with the use of a 1,550-gallon black plastic tank. The last thing I need is 55-degree F. water on the plants when it is more often than not, too cool to begin with! The black tank is a passive solar collector, but I have an active component as well. I position a submersible pump near the bottom of the tank. The water is circulated through about 400 feet of black or dark colored garden hose and then right back into the tank. The garden hose is laid out in a serpentine pattern along the edge of our long black asphalt driveway. In this way we can usually water the plants with 75-80-degree water. The tank itself is plumbed so water can be circulated by my 2-horse electric motor as well. The water in the tank tends to stratify, becoming over 100-degrees at the top, but remaining cool near the bottom. This circulating feature evens out the water temperature and also is useful in mixing water soluble fertilizers, fungicides or pest controls. Our DVDs show in detail how the plumbing and pump are set up to accomplish these tasks. A pressure modulating valve is part of the system as well. I can use the 2 horsepower motor to supply just a single sprinkler head by returning the excess flow right back to the tank, or flow 20 heads or more utilizing the full capacity of the pump which runs on 220 volts. A decision whether to use the overhead sprinklers or the soaker hoses was based on intuition. Early in the day, early in the season, during very warm weather, and whether I wanted to apply something to the leaves were factors in support of overhead. Later in the day, cool weather, and later in the season were considerations that favored use of the soaker hoses.

My Best Tools in Growing a World Champion Pumpkin of 2,363-Pounds

BioGrow Endo Plus and Soluble Maxx: BioGrow is the premium 4-species Mycorrhizae for growing giant pumpkins. We use it in the seed starting mix and in the planting hole. Till **BioGrow** into each bed and use 1 to 2-Tablespoons in the trench at each leaf axil. **Soluble Maxx** has 9-species of Mycorrhizae, and mixes with water. We use this at the base of each plant when young, and wet down the trench area before covering the vines.

Pumpkin Power 9 – 3 – 4: This All-Organic Fertilizer is formulated to grow giant pumpkins. The granular dust-free product is easy to spread and feeds all season. We use it in transplanting soil, and when setting the plants in the patch. Till it into the growing beds and use ¼-cup per 3-foot of vine when covering.

Soluble Seaweed Powder: The finest Seaweed available! No other comes close to our **Soluble Seaweed 1 – 1 -17:** It is indespensable in growing my 2,363 pound World Champion. It has 17% Potassium, 62-trace minerals and many growth promoting hormones. We use it when soaking seeds and at the base of young plants. We foliar spray every 5 to 7 days throughout the season.

Soluble Calcium Powder 5 – 0 - 15: This is the quickly available source of Calcium the fast-growing pumpkin needs to maintain strong cell structure and form thick walls that helps resist cracking and splitting. Our **Soluble Calcium Powder** helped our 2,363 World Champion Pumpkin weigh 11% heavy and have a flawless stem and blossom end.

48-foot Soil Warming Cables: Giant pumpkins need warm soil in the root zone in the cool Spring to do well. One cable per plant helps maintain a 74-degree temperature, which supports early season growth and nutrient availability. Our DVD "How I Grew a World Champion Pumpkin of 2,363 Pounds" demonstrates how to install the soil warming cable.

Nutri-Aid Blossom-Booster and Fruit Finisher 0 – 52 – 34: This is a great mid—to—late season fertilizer. Start about June 10th to encourage blossoming. After fruit set the 52% Phosphorus encourages healthy seed development, and the 34% Potassium supports the formation of the complex carbohydrates that make up the walls of the pumpkin.

My 2,363 pound pumpkin gained 500 pounds after September 1^{st} and weighed over the chart. I foliar fed every 5 days throughout this time period with **Nutri-Aid 0 – 52 – 34**.

Soluble Fish Powder 1 – 1 – 12: This provides the needed Nitrogen early in the season, so a strong plant big enough to support an early fruit set can be achieved. Natural **Fish Powder** provides the Nitrogen in a safe-steady way which enables controlled healthy growth.

Whizzers and Perfect Pin Nozzles: The Whizzers are ideal for supplying a gentle even pattern of water in an open area. The Perfect Pin Nozzles are great for providing a fine overhead spray for watering and/or cooling inside a cloche or greenhouse.

Actinovate and Companion Wettable Powder: Alternating sprays of these biological fungicides, along with Fosphite are my main tools to fight disease in my patch.

HOLLAND'S LAND O'GIANTS PRICE LIST

BioGrow Endo Plus					
Package 91 3 seeds 33.00 Package 92 0 seeds 64.00 Package 93 9 seeds 105.00	PRODUCT	SIZE		QUANTITY	TOTAL
Package #2					
Package 43 9 seeds					
ROOKS					
Farmer Mike's Giant Pumpkins	Package #3	9 seeds			
Child's Book Wiptority ship 14.00 WYOORRIIJAE PRODUCTS	Former Milro's Ciant Dumpling		BOOKS		
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	Biomin Magnesium Conc	1-gallon			

Some Section Company	Biomin Magnesium Conc	2.5-gallon	102.00		
Biomin Exel Conc. 2.5 gallon 108.00					
Biomin Cal Broc Onc. 1-gallen \$8.00					
Biomin Cal-Boro Cox. 2-5-gallon 108.00					
Field-Miss	Biomin Cal-Boro Conc.	2.5-gallon	108.00		
Sol. Rhizzone Fowder		U	62.00		
Sol. Ribone Fewder 3-pound 12700					
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Jersey Greensand	*				
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Amino-Acid Bio-Activator	1	12-pound			
Amino-Acid Bio-Activator					
Amino-Acid Bio-Activator		1			
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Micromax 20-pound 55.00	Micromax		27.00		
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Langbeinite 0-0-21 + 25-pound 52.00 Langbeinite 0-0-21 + 35-pound 65.00 Chick-A-Doo 4-3-3/7% calc. 5-pound 17.00 Chick-A-Doo 4-3-3/7% calc. 12-pound 24.00 Chick-A-Doo 4-3-3/7% calc. 20-pound 33.00 Osmocote Time-Release 1-pound 18.00 Osmocote Time-Release 5-pound 28.00 Osmocote Time-Release 10-pound 39.00 Osmocote Time-Release 20-pound 54.00 GROWING SUPPLIES ROOTSHIELD + Sol. Powder 1-pound 142.00 ROOTSHIELD + Sol. Powder 3-pound 299.00 ROOTSHIELD + Granular 1-pound 44.00 ROOTSHIELD + Granular 5-pound 139.00 ROOTSHIELD + Granular 10-pound 216.00 Actinovate Fungicide 2-ounces 24.00					
Langbeinite 0-0-21 + 35-pound 65.00				+	
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GROWING SUPPLIES					
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Actinovate Fungicide 16-ounces 146.00		_	2100	1	1 -
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Companion Biol. Fungicide	1-gallon	122.00		
Companion Biol. Fungicide	2.5-gallon	248.00		
Companion Biol. Fungicide	5-gallon	462.00		
Companion Wettable Powder	8-ounces	35.00		
Companion Wettable Powder	5-pound	230.00		
Companion Wettable Powder Companion Wettable Powder	20-pound	710.00		
Soil-Warming Cables	50-pound 24-foot	1625.00 34.98 ea./4 or more 33.98 ea.		
Soil-Warming Cables Soil-Warming Cables	48-foot	39.98 ea./4 or more 38.98 ea.		
Squash Borer Traps (SVB)	KIT	29.00		
Squash Borer Trap Lure	extra	5.00		
Squash Borer Trap Tape	extra	5.00		
Yellow Sticky Strips 3" X 5"	Pkg. of 10	13.00		
Fosphite	1-gallon	52.00		
Fosphite	2.5-gallon	106.00		
Fulmag	1-gallon	59.00		
Fulmag	2.5-gallon	72.00 79.00		
BioRepel Insecticide GC-3 Mildew Cure	1-gallon 1-gallon	68.00		
GC-Mite Pest Out	1-gallon	82.00		
Natural Wet Anti-Stress	1-gallon	52.00		
Weed Zap	1-gallon	99.00		
Weed Zap	2.5 gallon	198.00		
Salt Down	1-gallon	49.00		
Salt Down	2.5 gallon	89.00		
Top Coat anti stress & frost	1-gallon	72.00		
Top Coat anti stress & frost	2.5-gallon	140.00		
Measuring Syringe	each	8.00		
Grow Mats-heavy duty Cover Crop Seed Spec. Mix	3' X 3'	8.00 22.00		
Cover Crop Seed Spec. Mix Cover Crop Seed Spec. Mix	5-pound 14-pound	35.00		
Cover Crop Seed Spec. Mix Cover Crop Seed Spec. Mix	20-pound	43.00		
Winter Rye Seed	5-pound	22.00		
Winter Rye Seed	14-pound	32.00		
Winter Rye Seed	20-pound	41.00		
Buckwheat Cover Crop Seed	5-pound	23.00		
Buckwheat Cover Crop Seed	10-pound	33.00		
Myco-Bact Seed Innoculant	1-ounce	8.00		
Myco-Bact Seed Innoculant	2-ounce	11.00		
FertileEarth Compostmaker	1-pound	19.00		
FertileEarth Compostmaker	3-pound	41.00		
T-Stakes Seed Packets	Pkg. 12 Pkg. 30	12.00 5.00		
Seed Packets Seed Packets	Pkg. 50 Pkg.150	15.00		
Plastic Seed Packets	Pkg. 50	5.00		
Plastic Seed Packets	Pkg. 100	9.00		
Snap Clamps- greenhouse	20 of ½-"	19.00		
Snap Clamps- greenhouse	20 of 3/4"	22.00		
PVC Pipe-to-hose Adaptor	1/2"	6.00		
PVC End Cap		4.00		
Male Pipe Thread Adaptor		3.50		
½" PVC 4-way Cross		4.50		
½" PVC Tee		3.50	-	
½" PVC 3-Way Corner Greenhouse Parts Package	+	4.50 29.00	-	
Greenhouse Parts Package Greenhouse DVD and parts package	+	29.00 48.00	+	
Slitted Row Cover	6' X 50'	35.00	+	
Greenhouse Cloche Film	12' X 20'	45.00	†	
	1120			
		SPRINKLERS		
Perfect Pin Nozzles	each	4.25		
Whizzer Sprinklers	each	8.00		
		GIANT PUMPKIN SEEDS		
Giant Pumpkin Seeds	6 in a pkt.	14.00		
Giant Pumpkin Seeds	25 per pkt.	46.00	-	
Super Pumpkin Seeds Super Pumpkin Seeds	3 in a pkt.	16.00 42.00		
Silver Bullet Seeds	10 per pkt. 3 in a pkt.	42.00 21.00	+	
Silver Bullet Seeds	10 per pkt.	57.00		
Seed Storage Kit	each	10.00	†	
Seed Storage Kit	Set of 5	36.00	†	
Monster Smash Seeds	6 in a pkt.	12.00		
World of Color Pumpkin Seeds	6 in a pkt	11.00		
Spirit Semi-Bush	10 in a pkt	9.00		
Jack-B-Quik	10 in a pkt	9.00		
SEEDS WITH A PEDIGREE	PLEASE	CHECK WEBSITE FOR	PRICES AND	UPDATES
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	CORN	SUNFLOWERS AND TOMATO	SEEDS	1

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Bodacious Corn Seed	40 in a pkt	9.00	
"Delicious" Tomato Seed	10 in a pkt	7.00	
Tall Corn Seed	40 in a pkt	7.00	
Bodacious Corn Seed	40 in a pkt	7.00	
"Delicious" Tomato Seeds	10 in a pkt	7.00	
"Big Zac" Tomato Seed	10 in a pkt	7.00	
Brandywine Tomato Seed	10 in a pkt	7.00	
Belquim Tomato Seed	10 in a pkt	7.00	
Watermelon up to 200#	10 in a pkt	9.00	
Watermelon 200#-250#	6 in a pkt	12.00	
Watermelon 250#-290#	6 in a pkt	17.00	
Sunflower Seeds G.S. Giant	30 in a pkt	7.50	
Sunflower Seed Sonny Boy	30 in a pkt	7.50	

ORDER T	OTAL:
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<u>PLEASE NOTE:</u> That all prices quoted include priority shipping if possible <u>Canadian and International orders:</u>

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