



**HARRIS
MORAN**
SEED COMPANY

Pumpkin Guide 2016





Choosing and caring for your Harris Moran pumpkins

The right variety for you

Harris Moran offers many features of pumpkins to fill all market slots. In addition to having various shapes and sizes, Harris Moran varieties feature pumpkins with the dark rich color, strong handles and disease resistances that enhance the appearance and value of the pumpkin.

Fertility

Before planting, we recommend that you sample the soil. An ideal pH ranges from 6.0 to 7.0. You may need to amend your soil to achieve this level with high calcium and low magnesium limestone, as your soil test warrants. Once you have the appropriate pH, you should apply the major and minor soil nutrients (NPK) at the proper levels.

Pollination

Pumpkins sport both male and female flowers. The plants must be insect pollinated – honeybees being the main pollinators. Multiple visits to each flower are necessary for pollination – about 15 visits per flower. Place beehives in the field when flowers begin opening, usually when the third node forms on the plant. Leave beehives in the field for only 35 days. Location and timing of pollination is key because research shows honeybees prefer other types of plants from which they get more nectar and pollen. Keep the bees interested in pollinating the pumpkin patch by placing the hives in the proper area at the proper time.



Planting and spacing

Proper soil depth at planting, along with spacing intervals, can also make or break a crop. Recommended planting dates usually run from late May to early July, depending on your location. You may want to consider multiple planting dates to provide pumpkins for an extended harvest period. Seeds are most often planted at a depth of 1 to 2 inches depending upon the soil moisture at the time of planting. Remember, you need good seed-to-soil contact for optimum germination. Seeding rates per acre, as well as spacing, should be selected based upon the variety of pumpkin. Each variety has an ideal spacing for optimum performance. A heavy stand can stress your plant and restrict growth thus influencing the size and set of your pumpkins. In work done by Ron Morse, Virginia Polytechnic Institute and University, optimum yield was achieved by using a semi-bush plant such as Magic Lantern and equilateral spacing (4ft x 4ft). This type of spacing produced 25% more marketable pumpkins than other spacings with the same number of square feet (8ft x 2ft).

Managing pests in your production field

- Weeds can prevent bees from pollinating flowers. They also serve as hosts for insects which can spread harmful viruses.
- Insects can introduce viruses to a field. These infestations lead to restriction of size, greening and lumpiness of the pumpkin fruit.
- Diseases can jeopardize your pumpkin crop. Phytophthora Blight, Black Rot, Mosaic Viruses and Powdery Mildew are just some of the major diseases that can do harm. Each of these pests can be controlled by numerous methods including: good crop rotation, soil drainage, varietal resistance, proper planting time, seeding rate, and regular use of pesticides.

Harvest, handling, and storing pumpkins

If you want maximum tonnage from your pumpkin crop, it is imperative you harvest your fruit at its optimum maturity. If pumpkins are left on the vine past maturity they will actually decrease in weight as each day passes. This can reduce the final tonnage of your field. When harvesting for wholesale be sure to harvest and stack the pumpkins carefully in the bins so you don't injure the fruit. Injured fruit offer the perfect points of entry for post-harvest disease.

The USDA Agriculture Handbook suggests the following steps be taken for proper pumpkin storage:

- Ideal storage temp should be between 50 to 55 degrees F
- Relative humidity should be no more than 70% and no less than 50%
- The harvested pumpkins should be placed on racks, in bins or in baskets

ALADDIN

Beautiful large-sized pumpkin.

- Uniform size and yield
- Firmly rooted handle
- Dark orange color



APOLLO

Exciting large size pumpkin to compliment Aladdin.

- Medium dark orange color
- Medium ribbing
- Improved handle size & handle attachment



CRONUS

Extra-large pumpkin. A must have for every patch!

- Excellent yields
- Exceptionally vigorous vine
- Dark orange color with well-defined ribs
- Large, firmly attached handle



KRATOS

Strong, powerful pumpkin.

- Large, firmly-attached handle
- Strong vine
- Good yield, grower friendly
- Large, flat-round, medium-ribbed fruit



ARES

Tall, strong, warrior pumpkin.

- Large, firmly-attached handle
- Unique, upright shape
- Excellent yield potential
- Uniform shape and size



RHEA

A beautiful pumpkin that has a handle to match!

- Consistent yielding
- Large vigorous vine
- Dark orange color
- Excellent for roadside and shipping



MAGIC WAND

High yielding even during hot seasons.

- Attractive, uniform round to slightly flat shape
- Large, firmly rooted handle
- Smooth and lightly ribbed



MAGIC LANTERN

The high standard by which all other varieties are judged.

- Attractive, classy appearance
- Upright shape, classic look
- High yield potential
- Easy harvest management



GLADIATOR

A proven performer in many environments.

- Vigorous plant
- Consistent high yield
- Excellent color



ZEUS

Olympic quality pumpkin.

- Large, firmly-attached handle
- Good yield on a strong vine
- Attractive, medium-sized fruit
- Consistent size for shipping



WARTY GOBLIN

Frighteningly cool!

- Heavily warted pumpkins with a very high yield
- Excellent pumpkin for patches and roadside stores
- Hard shell for durability and storage



MAGICIAN

A wonderfully reliable round pumpkin.

- Medium size
- Excellent orange color
- Round shape
- High yields



CANNON BALL

A superb pie pumpkin, perfect for painting.

- Vigorous plant
- Excellent orange color
- Large, firmly rooted handle
- Heavy fruits



MISCHIEF

Perfect size for both chain stores and roadside stands.

- Can be carved or painted
- Very high yields of highly uniform fruit
- Dark orange with a dark, strongly attached handle



LITTLE GIANT

Little pumpkin with giant size appeal.

- Small pie pumpkin with an attractive shape
- Ideal for school field trips
- Dark orange color with long, dark green handle



FIELD TRIP

Perfect for school pumpkin patches!

- Distinctive long handle
- Flat and ribby
- Very uniform in shape/size



MYSTIC PLUS

Traditional pie filling pumpkin with exceptional production potential.

- Great tasting pie filler
- Top yields, excellent producer
- Minimal handle breakage
- Ideal for children to carry



CRUNCHKIN

Excellent choice for the decorative pumpkin class.

- Ornamental scalloped type
- Concentrated high yield
- Speckled, hard shell exterior that darkens as it ages



LIL' PUMP-KE-MON

Unique white ornamental mini pumpkin with orange stripes.

- Large, stocky plant
- Very uniform fruit
- Concentrated set



MUNCHKIN

Miniature ornamental for speciality markets.

- Early maturity
- Full vine with high yield potential
- Excellent bright orange color
- Trim stems for easy packing



Pumpkins

Commercial Varieties Comparative Table

Variety	Size	Shape	Color	Hard Shell	Weight (lbs)	Between row feet	In-row feet	Square feet	Px	ZYMV
Aladdin	Large	Round to tall	Orange to deep orange		25-35	8-12	3-4	24-48	IR	
Apollo	Large	Round to tall	Dark orange		18-32	8-12	3-4	24-48	IR	
Ares	Large	Upright	Medium dark orange		22-28	8-12	3-4	24-48	IR	
Cronus	Large	Round-flat	Dark orange		25-60	12-15	3-5	36-75	IR	
Kratos	Large	Flat-round	Medium dark orange		20-30	8-12	3-4	24-48	IR	
Gladiator	Medium	Deep round	Orange to deep orange		20-30	8-12	3-4	24-48	IR	
Rhea	Medium	Flat round	Dark orange		20-30	8-12	3-4	24-48	IR	
Magic Lantern	Medium	Slightly upright	Dark orange		15-25	3-4	4-5	12-20	IR	
Magic Wand	Medium	Round, slightly flat	Dark orange		15-25	3-4	4-5	12-20	IR	
Magician	Medium	Round to tall	Dark orange		8-16	3-4	4-5	12-20	IR	IR
Warty Goblin	Medium	Round-flat	Orange with green warts	✓	8-20	3-4	4-5	12-20	IR	
Zeus	Medium	Round	Medium dark orange		16-20	4-6	4-6	18-36	IR	IR
Cannon Ball	Small	Round to upright	Orange to dark orange		3-5	5-6	2-3	10-18	IR	
Field Trip	Small	Flattened	Orange to dark orange		5-7	5-6	2-3	10-18	IR	
Little Giant	Small	Round to upright	Orange to dark orange		3-5	5-6	2-3	10-18	IR	
Mischief	Small	Tall round	Orange		3-5	5-6	2-3	10-18	IR	
Mystic Plus	Small	Round	Orange to dark orange		5-7	5-6	2-3	10-18	IR	
Crunchkin	Mini	Flattened/scalloped	Bright Orange	✓	0.5	4-6	1-2	4-12		
Lil Pump-Ke-Mon	Mini	Flattened/scalloped	White with distinct stripes		1-2	4-6	1-2	4-12		
Munchkin	Mini	Flattened/scalloped	Bright orange		0.5	4-6	1-2	4-12		

Common name	Abbreviation	Pathogen/Causal agent
Powdery mildew	Px	<i>Podosphaera xanthii</i> (ex <i>Sphaerotheca fuliginea</i>)
Zucchini yellows	ZYMV	<i>Zucchini yellow mosaic virus</i>

Data and Disease Ratings are an average of results from various test locations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. The HM.CLAUSE, Inc. Limitation of Warranty and Liability and Use Restriction is a condition of purchase of all Harris Moran and HM.CLAUSE seed. To preview the Limitation of Warranty and Liability and Use Restriction, please visit the HM.CLAUSE, Inc. website found at www.hmclause.com or call HM.CLAUSE, Inc. for more information.

Quick Reference Guide



Lil Pump-ke-mon



Crunchkin



Munchkin

Mini



Cannon Ball



Field Trip



Mystic Plus



Little Giant

Small



Mischief



Gladiator



Magic Lantern



Magic Wand



Zeus

New

Medium



Rhea



Magician



Warty Goblin



Aladdin



Ares

New



Cronus



Kratos

New

Large



Apollo



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