

Endless Summer®

BloomStruck® Culture Sheet

Endless Summer® BloomStruck® Bigleaf Hydrangea
Hydrangea macrophylla 'PIIHM-II' PP25, 566



BloomStruck®

Deciduous/Evergreen: Deciduous

Northern/Midwest Region Container Production

pH: 5.5-6 EC: 1.5-2.0 in MN and 2.2-2.7 in IL

Hardiness: Zone 4-9

Fertilization Requirements	Incorp at planting (Polyon 17-3-10) at 10 lbs per yard and uncoated aluminum sulfate at 16 lbs per yard. Top dress in second season with 22-3-8 at 15 grams / gallon pot.
Overwintering Practices and Temperatures	In MN, the plants are overwintered in two ways; in a covered structure or outside using double poly method. Covered structure: coldframe or greenhouse structure are covered in a dual-side black and white poly and heated to keep temperature at a minimum of 28°F. Double poly method: In colder climates, plants are consolidated, tipped, and covered with alternating layers of 3-4 mil poly and 3" sudan grass. With this method, temperatures remain constant from 28-32°F. At the IL location, plants are consolidated into poly houses and covered with a frost cloth where temperatures stay safely at or above 22°F. If long durations of cold occur, it is recommended to add an additional blanket. The blanket/frost cloth is removed in early March to help keep the plants dormant until they naturally wake up with warming temperatures. In general, we remove the blanket after temperatures have been consistently 50s in the greenhouses with the doors shut. We have also opened doors and left the blankets on to cool the inside of the houses in late February and early March with good success in more mild years.
Light Levels	Full sun
Water Requirements	Prefer to run on the drier side during vegetative growth, to limit growth (over watering will keep plant vegetative). When flowers are present, do not dry stress or flowers will burn. Use acidified water if needed.
Planting Season	Planting is from March 15th to September 1st.
Pest/Disease Management	Anthracnose, powdery mildew, aphids and mites can be a problem. H. macrophyllas are very sensitive to pre-emergent herbicide. Do not use the miticide; Spiromesifen on Hydrangeas.
PGR Application	Common chemicals used are daminozide and paclobutrazol. Do not use ethephon.
Flowers on new or old wood	Blooms on new and old wood.
Special Notes	Lots of buds form in fall or early spring. If cut back end of May/June, will get a light show of flowers. When it is extremely hot, water to cool. Shade could benefit to keep flowers from burning. It is important to keep them hydrated when they start to bloom as this will cause the blooms to stay fresher, longer. May need to water late morning and then later in the afternoon during hot weather.

Estimated Finishing Times

	8" container	#2 container	#3 container	#5 container
Liner	Finish in 10 weeks using LO 38 plug.	Finish in 14-16 weeks using LO 38 plug. Finish in 10-12 weeks using Jumpstarts™.	Finish in 10 weeks using #1 bareroot liner. Finish in 6-8 weeks using 8" upshift.	Finish in 12 weeks using #1 bareroot liner. Finish in 8-10 weeks using 8" upshift.
JumpStarts™	6-8 weeks	8-10 weeks	14 weeks	

Pacific Northwest Region Container Production

pH: 4-5.5 EC: 0.5-2

Fertilization Requirements	8 month (Polyon 18-6-11) incorp at planting. Coated aluminum sulfate is added at 10 lbs per yard.
Overwintering Practices and Temperatures	Plants are overwintered outside, spaced in growing lines. Poly houses can be used late winter into early winter for early spring sales (forcing.) Temperatures are greater than 20°F.
Light Levels	Full Sun
Water Requirements	Medium to high water requirements.
Planting Season	Plugs are planted in May and bareroot is planted in fall.
Pest/Disease Management	Aphids and two spotted spider mites have been observed. Do not use the miticide; Spiromesifen on Hydrangeas.
PGR Application	Daminozide and paclobutrazol have been used. Do not use ethephon.
Flowers on new or old wood	Blooms on new and old wood.
Special Notes	Shade to keep blooms from burning.

Estimated Finishing Times

Liner	8" container	#2 container	#3 container	#5 container
LO 38 plug	Finish in 14 weeks.	Finish in 16-18 weeks.		
JumpStarts™	7 weeks	12 weeks	16 weeks	6 months
Bareroot		Finish in 10-12 weeks using #1 liner.	Finish in 12-14 weeks using #1 liner.	Finish in 16-18 weeks using #1 liner.
upshift			Finish in 14 weeks using 8" container.	Finish in 16-18 weeks using 8" container.

Southern Region Container Production

pH: 5.5-6.5 EC: 0.5-1.5

Fertilization Requirements	Composted pine bark amended with 9 lbs (15-6-11) controlled release fertilizer. Supplement with weekly application of liquid feed (12-3-6) from mid-summer until fall.
Overwintering Practices and Temperatures	Plants are consolidated. Use frost blanket if temperatures reach 22-23 °F. Remove when temperatures are around 50°F or when watering is needed. It is also recommended that plants go fully dormant to avoid winter injury.
Light Levels	Plants are kept under 47% shade starting April 1st.
Water Requirements	Grew under a variety of different watering regimes and plants performed well in all cases with no root problems.
Planting Season	Early spring to summer.
Pest/Disease Management	Spray every 15-21 days all summer with common fungicides, insecticides, and miticides. Do not use any pre-emergent herbicide.
PGR Application	No experience with PGRs.
Flowers on new or old wood	Blooms on new and old wood.
Special Notes	Does not exhibit heat stress like other H. marcophyllas. Beautiful red stems and great fall color. Need 2 applications of Aluminum sulfate to achieve best color, might be best to apply multiple times at half rate to ensure no burn. For #3 containers, prune plants hard after potting. Mid-summer prune 1 node higher than Original®, this results in full plant with plenty of flower buds.

Estimated Finishing Times

	8" container	#3 container
Liner	Finish in 3 months using 2 1/2" plug.	Finish in 1 year using 2 1/2" plug.

Minnesota Bud & Bloom (Greenhouse) Production

pH: 5.5-6 EC: 1.5-2.0

Fertilization Requirements	Incorp at planting (Polyon 17-3-10) at 10 lbs per yard and uncoated aluminum sulfate at 16 lbs per yard. In fall drench with Aluminum sulfate at 12 grams per #2 pot. Top dress second season at 17-5-10 at 30 grams per #2 pot and do a spring drench at 12 grams per #2 pot (of aluminum @ 20 lbs/100 gal.)
Overwintering Practices and Temperatures	Overwintering temperatures are kept at 35 °F. Greenhouse is covered with black/white poly to maintain stable temperatures.
Light Levels	Full sun
Water Requirements	Prefer to run on the drier side during vegetative growth, to limit growth. When flowers are present, do not dry stress or flowers will burn. Use acidified water if needed.
Planting Season	Plant overwintered quart liner in spring to force for next year's bud & bloom production.
Pest/Disease Management	Anthrachnose, powdery mildew, aphids and mites can be a problem. H. macrophyllas are very sensitive to pre-emergent herbicide.
PGR Application	Common chemicals used are daminozide and paclobutrazol. Do not use ethephon.
Flowers on new or old wood	Blooms on new and old wood.
Special Notes	It is important that the pH of the soil is between 4.5-5.8 and has the presence of aluminum in the soil during and after flower bud development to turn blue-purple. The plant has shown to be floriferous. Overwintered plants bloom from terminal buds and lateral buds. Stems are more stout and a little more compact compared to Original and Twist-n-Shout. In November, plants are trimmed to 3-4". In spring, both lateral and basal buds will bloom. For terminal bud crop, trim back in early August and apply PGR to keep plant 6" tall going into winter.

Estimated Finishing Times

	8" container	#2 container
Cut Back Crop	Finish in 60 days at 60°F	Finish in 60 days at 60°F
Terminal Crop	Finish in 55 days at 60°F	Finish in 55 days at 60°F

Edited 08/14/2018

Note: The information presented should be considered as a starting point for best practices. Production times and product applications will vary depending on the growing region and conditions. It is the responsibility of the applicator to follow all current manufacturer label directions in a responsible manner.