

Endless Summer

Blushing Bride Culture Sheet



Endless Summer® Blushing Bride Hydrangea

Hydrangea macrophylla 'Blushing Bride' PP17,169

BlushingBride

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 5-9

Fertilization Requirements	Incorp at planting (Polyon 17-3-10) at 10 lbs per yard. Top dress in second season with 22-3-8 at 15 grams per gallon pot. Adding aluminum sulfate to this plant will change the color to a Carolina blue.
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" of 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.
Propagation Method and Notes	Stick softwood cuttings in a 38 plug/quart. Controlled release fertilizer (Polyon 17-6-12) at 5 lbs per yard. No aluminum sulfate should be applied or the flowers will be a blush blue. The cuttings are stuck around August 1st and overwinter in the greenhouse at 27°F. Please note for areas that experience harsh winters and long duration of cold where temperatures are at or below 27°F for extended periods of time, we recommend overwintering at 33°F air temperature.
Pest/Disease Management	Anthrachnose, powdery mildew, aphids and mites can be a problem. H. macrophyllas are very sensitive to pre-emergent herbicide. Chlorosis can be a problem. 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 10-12 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 incorp (Polyon 18-6-11) at planting.
Overwintering Practices and Temperatures	Plants are overwintered outside, spaced in growing lines. Poly houses can be used for forcing in later winter in early spring for early spring sales.
Light Levels	Full Sun
Water Requirements	Medium to high water requirements.
Planting Season	Plugs are planted in May and bareroot is planted in fall.
Propagation Method and Notes	Stick softwood cuttings in a 38 plug/quart. Controlled release fertilizer (Polyon 17-6-12) at 5 lbs per yard. The cuttings are stuck around August 1st and overwinter in the greenhouse at 27°F. Please note for areas that experience harsh winters and long duration of cold where temperatures are at or below 27°F for extended periods of time, we recommend overwintering at 33°F air temperature.
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: 0.5-2.0

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.
Propagation Method and Notes	Softwood cuttings anytime during growing season. Single or multiple node cuttings treated with 1000 ppm of KIBA. Off mist in 30-45 days.
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	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. Two minute cooling cycle required in extreme afternoon heat.

Estimated Finishing Times

	8" container	#3 container
Liner	Pot 2 1/2" plug in June and ready by October 1st.	Pot 2 1/2" plug late April and finishes the following year. OR. Upshift 8" by March 15th, plants will be ready late September.

Minnesota Bud & Bloom (Greenhouse) Production

pH: 5.5-6.0 EC: 1.5-2.0

Fertilization Requirements	Incorp Polyon 17-3-10 at 10 lbs per yard. Blushing Bride needs supplemental fertilizer of Peters 20-20-20.
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.
Propagation Method and Notes	Stick softwood cuttings in a 38 plug/quart. Controlled release fertilizer (Polyon 17-6-12) at 5 lbs per yard. The cuttings are stuck around August 1st and overwinter in the greenhouse at 27°F. Please note for areas that experience harsh winters and long duration of cold where temperatures are at or below 27°F for extended periods of time, we recommend overwintering at 33°F air temperature.
Pest/Disease Management	Anthraco-nose, 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	This crop is a terminal bud crop going into winter. The last cut back date is July 15th. Applied PGRs to keep plants at 6-7 inches going into winter.

Estimated Finishing Times

	8" container	#2 container
Terminal Crop	Finish in 40 days at 60°F	Finish in 45 days at 60°F

Edited 10/12/2016

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.