

PERENNIAL

PROPAGATION

Salvia Open Cultivar(s)

Salvia elegans



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	No
Tray Size(s)	105
Plants Per Cell	1
Wks. From Stick To Transplant	4-5
Pinch?	Yes
Days from stick to pinch	14-21

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	50-75 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.8-6.2

TEMPERATURE

Average Soil Temperature	18-22°C
Average Air Temperature	18-22°C

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Supplemental	No
Benefits From Shade?	No

POTENTIAL DISEASES

Botrytis, powdery mildew

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- None

CULTIVAR LIST

Pineapple Sage



TIPS

- Keep plants on the dryer side during prop to discourage rot and disease.
- Herbs are regulated as edible crops in both the USA and Canada. Only apply fungicides, insecticides, and PGRs that are approved for edible crop production in your state/province.

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PERENNIAL

FINISHING

Salvia Open Cultivar(s)

Salvia elegans



VERNALIZATION

Vernalization Required? **No**

Vernalization Duration Minimum **N/A**

Vernalization Temperature **N/A**

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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10-12 cm	1	4-5
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15-16 cm	2-3	5-6
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FERTILITY

Fertilizer Rate 100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])

EC Range **Moderate: (2.0-3.5 mS via SME)**

pH Range **5.8-6.2**

TEMPERATURE

Day Temperature **18-24°C**

Night Temperature **13-18°C**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Photoperiodic requirements **N/A**

Supplemental? **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **Yes**

Transplant to pinch (days) **14-21**

POTENTIAL DISEASES

Botrytis, powdery mildew

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- None



TIPS

- Sensitive to cold temperatures and overwatering, never allow temp to fall below 7° C.
- Herbs are regulated as edible crops in both the USA and Canada. Only apply fungicides, insecticides, and PGRs that are approved for edible crop production in your state/ province.

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PERENNIAL

FEATURES AND BENEFITS

Salvia Open Cultivar(s)

Salvia elegans



KEY INFORMATION

First Year Flowering?	Yes
Bloom Time	Late Spring to Mid Summer
Exposure	Full Sun
Hardiness Zone	7-10
Height	30-60 cm
Width	20-41 cm

DESCRIPTION

Used more as a fragrance than a culinary herb, *Salvia elegans* is aptly named for its aromatic resemblance to pineapple. Consider using in summer salads, as a tea component, or as a cocktail garnish.

CONSUMER APPEAL

- Herbs and edibles are a trendy addition to any garden regardless of gardening experience. Children in particular should be included in the multi-sensory experience of an herb garden. Encourage them to touch, crush, smell, taste, and immerse themselves in the wonderful charm of herbs.
- If allowed to bloom, the vibrant tubular flowers of *Salvia elegans* attract both butterflies and hummingbirds.

GARDEN ATTRIBUTES

- Excellent in cottage gardens, sensory gardens, and fragrance gardens. Herbs are an ideal choice for high traffic areas like walkways or entryways into a residence. Their versatility spreads to containers and even houseplants if properly cared for. Can work equally well inter-mixed other perennials.
- Herbs can be a clever and unorthodox addition to cut flower arrangements to create a truly zesty bouquet. Or, dry your herbs to enjoy them out-of-season.
- Best grown in evenly moist, well drained soils that are rich in organic matter.
- Herbs should not be allowed to flower at any time during their lifecycle. Flowering will alter the desired fragrance profile in addition to making the herb extremely bitter and unpalatable.

NATIVITY

Mexico and Guatemala

COMPANION PLANTS

French tarragon, lemon verbena, lemon balm, mint, basil, oregano, rosemary, thyme, sweet marjoram, stevia

COMMON NAME(S)

pineapple sage, tangerine sage



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PERENNIAL

PROPAGATION

Salvia Open Cultivar(s)

Salvia nemorosa



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	Yes
Tray Size(s)	72, 105
Plants Per Cell	1
Wks. From Stick To Transplant	6-8
Pinch?	Yes
Days from stick to pinch	21-28

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	50-75 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.8-6.2

TEMPERATURE

Average Soil Temperature	18-22°C
Average Air Temperature	18-22°C

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Supplemental	Optional
Benefits From Shade?	No

POTENTIAL DISEASES

Botrytis, root and stem rot, bacterial leaf spot

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- Optional 300-500 ppm Florel (3.9% Ethephon)
- Optional 2-3 ppm Sumagic (0.055% Uniconazole)

CULTIVAR LIST

Caradonna, Blue Hills, East Friesland, Snow Hill



'Caradonna'

TIPS

- Reduce mist as soon as possible when cutting become turgid.

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PERENNIAL

FINISHING

Salvia Open Cultivar(s)

Salvia nemorosa



VERNALIZATION

Vernalization Required? **No**

Vernalization Duration Minimum **N/A**

Vernalization Temperature **N/A**

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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10-12 cm	1	7-10
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15-16 cm	1-2	9-12
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22 cm	3	11-13
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FERTILITY

Fertilizer Rate 150-200 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])

EC Range **Moderate: (2.0-3.5 mS via SME)**

pH Range **5.8-6.2**

TEMPERATURE

Day Temperature **18-24°C**

Night Temperature **13-18°C**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Photoperiodic requirements **Long day: 12+ hours daily**

Supplemental? **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **Yes**

Transplant to pinch (days) **14-21**

POTENTIAL DISEASES

Botrytis, root and stem rot, bacterial leaf spot

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- 6-8 ppm Sumagic (0.055% Uniconazole)
- 2500-3750 ppm B-Nine (85% Daminozide) as needed
- 2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed



'Snow Hill'

TIPS

- Avoid overwatering. Proper spacing, air circulation, and medium-high EC helps promote branching and tones the plant.
- Long days will accelerate flowering.
- Cool temperatures can be used to maintain a compact habit.

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PERENNIAL

FEATURES AND BENEFITS

Salvia Open Cultivar(s)

Salvia nemorosa



KEY INFORMATION

First Year Flowering?	Yes
Bloom Time	Summer
Exposure	Full Sun
Hardiness Zone	4-8
Height	30-60 cm
Width	30 cm

DESCRIPTION

Old classics and new superstars, Salvia is one of the most widespread perennials on the market.

CONSUMER APPEAL

- Salvia is one of the easiest perennials to grow, especially for gardeners whose maintenance strategy is "benign neglect".
- With its considerable flower power and strikingly full racemes/panicles, Salvia has no issues attracting pollinators like bees and butterflies. Its unmistakable foliage scent is a natural deterrent to rabbits and deer.

GARDEN ATTRIBUTES

- Can make a good cut flower and/or dried flower.
- Salvia is the perfect mainstay backbone for a sunny perennial border. Great for cottage gardens, pollinator gardens, in mass plantings, or in containers.
- The Salvia genus prefers well drained soils that go through periodic moist-dry cycles. Poorly drained soils or those that are consistently saturated should be avoided. Soil amendments such as compost or other organic matter can help Salvia thrive in clay soils.
- After the flower stalks have finished their blooming cycle, remove the entire stalk to encourage reblooming.
- 'East Friesland' received the Royal Horticultural Society's Award of Garden Merit.

NATIVITY

Europe and Western Asia

COMPANION PLANTS

Stachys, *Verbena*, *Scabiosa*, *Solidago*,
Oenothera, *Dianthus*

COMMON NAME(S)

woodland sage, Balkan clary, salvia



'Burgundy Candles'

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PERENNIAL

PROPAGATION

Salvia Open Cultivar(s)

Salvia officinalis



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	No
Tray Size(s)	105
Plants Per Cell	1
Wks. From Stick To Transplant	4-5
Pinch?	Yes
Days from stick to pinch	14-21

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	50-75 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.8-6.2

TEMPERATURE

Average Soil Temperature	18-22°C
Average Air Temperature	18-22°C

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Supplemental	No
Benefits From Shade?	No

POTENTIAL DISEASES

Botrytis, powdery mildew

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- None

CULTIVAR LIST

Berggarten, Garden Grey, Tricolor, Purpurascens, Icterina



'Garden Grey'

TIPS

- Keep plants on the dryer side during prop to discourage rot and disease.
- Herbs are regulated as edible crops in both the USA and Canada. Only apply fungicides, insecticides, and PGRs that are approved for edible crop production in your state/province.

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PERENNIAL
FINISHING
Salvia Open Cultivar(s)

Salvia officinalis



VERNALIZATION

Vernalization Required? **No**

Vernalization Duration Minimum **N/A**

Vernalization Temperature **N/A**

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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10-12 cm	1	4-5
-----------------	----------	------------

15-16 cm	2-3	5-6
-----------------	------------	------------

FERTILITY

Fertilizer Rate 100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])

EC Range **Moderate: (2.0-3.5 mS via SME)**

pH Range **5.8-6.2**

TEMPERATURE

Day Temperature **18-24°C**

Night Temperature **13-18°C**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Photoperiodic requirements **N/A**

Supplemental? **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **Yes**

Transplant to pinch (days) **14-21**

POTENTIAL DISEASES

Botrytis, powdery mildew

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

• None



'Tricolor'

TIPS

- Sensitive to cold temperatures and overwatering, never allow temp to fall below 7° C.
- Herbs are regulated as edible crops in both the USA and Canada. Only apply fungicides, insecticides, and PGRs that are approved for edible crop production in your state/ province.

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PERENNIAL

FEATURES AND BENEFITS

Salvia Open Cultivar(s)

Salvia officinalis



KEY INFORMATION

First Year Flowering?	N/A
Bloom Time	Grown for foliage
Exposure	Full Sun
Hardiness Zone	6-9
Height	15-46 cm
Width	15-46 cm

DESCRIPTION

A widely used herb in Italian, Balkan and Middle Eastern cuisine, sage has an unmistakable savory pepper aroma and taste. In American cuisine, it serves as a necessary ingredient in poultry stuffing around thanksgiving and other winter holidays.

CONSUMER APPEAL

- Herbs and edibles are a trendy addition to any garden regardless of gardening experience. Children in particular should be included in the multi-sensory experience of an herb garden. Encourage them to touch, crush, smell, taste, and immerse themselves in the wonderful charm of herbs.
- The potent taste and fragrance of herbs makes them naturally resistant to rabbits, deer, and most herbivorous insects.

GARDEN ATTRIBUTES

- Excellent in cottage gardens, sensory gardens, and fragrance gardens. Herbs are an ideal choice for high traffic areas like walkways or entryways into a residence. Their versatility spreads to containers and even houseplants if properly cared for. Can work equally well inter-mixed other perennials.
- Herbs can be a clever and unorthodox addition to cut flower arrangements to create a truly zesty bouquet. Or, dry your herbs to enjoy them out-of-season.
- Best grown in very well drained (oftentimes rocky) soils that do not receive too much water.
- Herbs should not be allowed to flower at any time during their lifecycle. Flowering will alter the desired fragrance profile in addition to making the herb extremely bitter and unpalatable.

NATIVITY

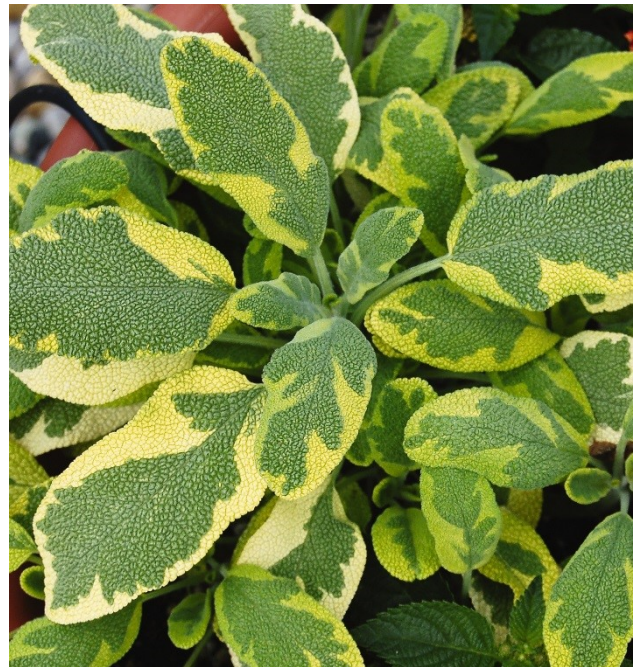
Mediterranean coasts

COMPANION PLANTS

French tarragon, lemon verbena, lemon balm, mint, basil, oregano, rosemary, thyme, sweet marjoram, stevia

COMMON NAME(S)

sage, garden sage, common sage



'Icertina'



'Purpurascens'

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PERENNIAL

PROPAGATION

Salvia Open Cultivar(s)

Salvia x sylvestris



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	Yes
Tray Size(s)	72, 105
Plants Per Cell	1
Wks. From Stick To Transplant	6-8
Pinch?	Yes
Days from stick to pinch	21-28

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	50-75 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.8-6.2

TEMPERATURE

Average Soil Temperature	18-22°C
Average Air Temperature	18-22°C

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Supplemental	Optional
Benefits From Shade?	No

POTENTIAL DISEASES

Botrytis, root and stem rot, bacterial leaf spot

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- Optional 300-500 ppm Florel (3.9% Ethephon)
- Optional 2-3 ppm Sumagic (0.055% Uniconazole)

CULTIVAR LIST

May Night



TIPS

- Reduce mist as soon as possible when cutting become turgid.

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PERENNIAL

FINISHING

Salvia Open Cultivar(s)

Salvia x sylvestris



VERNALIZATION

Vernalization Required? **No**

Vernalization Duration Minimum **N/A**

Vernalization Temperature **N/A**

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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10-12 cm	1	7-10
-----------------	----------	-------------

15-16 cm	1-2	9-12
-----------------	------------	-------------

22 cm	3	11-13
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FERTILITY

Fertilizer Rate 150-200 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])

EC Range **Moderate: (2.0-3.5 mS via SME)**

pH Range **5.8-6.2**

TEMPERATURE

Day Temperature **18-24°C**

Night Temperature **13-18°C**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Photoperiodic requirements **Daylength Neutral**

Supplemental? **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **Yes**

Transplant to pinch (days) **14-21**

POTENTIAL DISEASES

Botrytis, root and stem rot, bacterial leaf spot

POTENTIAL PESTS

whitefly, aphids

PGR SUGGESTIONS

- 6-8 ppm Sumagic (0.055% Uniconazole)
- 2500-3750 ppm B-Nine (85% Daminozide) as needed
- 2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed



TIPS

- Avoid overwatering. Proper spacing, air circulation, and medium-high EC helps promote branching and tones the plant.
- Long days will accelerate flowering.
- Cool temperatures can be used to maintain a compact habit.

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PERENNIAL

FEATURES AND BENEFITS

Salvia Open Cultivar(s)

Salvia x sylvestris



KEY INFORMATION

First Year Flowering?	Yes
Bloom Time	Summer
Exposure	Full Sun
Hardiness Zone	4-8
Height	30-60 cm
Width	30 cm

DESCRIPTION

With old classics and new superstars, Salvia is one of the most widespread perennials on the market.

CONSUMER APPEAL

- Salvia is one of the easiest perennials to grow, especially for gardeners whose maintenance strategy is "benign neglect".
- With its considerable flower power and strikingly full racemes/panicles, Salvia has no issues attracting pollinators like bees and butterflies. Its unmistakable foliage scent is a natural deterrent to rabbits and deer.

GARDEN ATTRIBUTES

- Can make a good cut flower and/or dried flower.
- Salvia is the perfect mainstay backbone for a sunny perennial border. Great for cottage gardens, pollinator gardens, in mass plantings, or in containers.
- The Salvia genus prefers well drained soils that go through periodic moist-dry cycles. Poorly drained soils or those that are consistently saturated should be avoided. Soil amendments such as compost or other organic matter can help Salvia thrive in clay soils.
- After the flower stalks have finished their blooming cycle, remove the entire stalk to encourage reblooming.
- 'East Friesland' received the Royal Horticultural Society's Award of Garden Merit.

NATIVITY

Europe and Western Asia

COMPANION PLANTS

Stachys, Verbena, Scabiosa, Solidago, Oenothera, Dianthus

COMMON NAME(S)

woodland sage, Balkan clary, salvia



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