

ANNUAL  
PROPAGATION  
**DAHLIA SUMMER BEES**

*Dahlia x hybrida*



TRAY & ROOTING

|                               |                                 |
|-------------------------------|---------------------------------|
| Form                          | <b>Vegetative Cutting (URC)</b> |
| Rooting Hormone?              | <b>No</b>                       |
| Tray Size                     | <b>50, 72, 84</b>               |
| Plants Per Cell               | <b>1</b>                        |
| Days In Mist                  | <b>5-10</b>                     |
| Wks. From Stick To Transplant | <b>3-4</b>                      |
| Propagation Pinch?            | <b>Optional</b>                 |
| Weeks To Pinch                | <b>3</b>                        |

FERTILITY

|                         |                                       |
|-------------------------|---------------------------------------|
| Fertilize Through Mist? | <b>50-75ppm N</b>                     |
| Fertilizer Rate         | <b>100-150ppm N</b>                   |
| EC Range                | <b>Moderate: (2.0-3.5 mS via SME)</b> |
| pH Range                | <b>5.6-6.2</b>                        |

TEMPERATURE

|                         |                          |
|-------------------------|--------------------------|
| Average Soil Temp       | <b>70-75°F (21-24°C)</b> |
| Average Air Temp (Day)  | <b>70-75°F (21-24°C)</b> |
| Average Air Temp(Night) | <b>65-68°F (18-20°C)</b> |

IRRIGATION

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Irrigation Frequency | <b>Level 4: Keep media moderately moist at all times</b> |
|----------------------|----------------------------------------------------------|

LIGHT

|                      |                     |
|----------------------|---------------------|
| Daylength Neutral?   | <b>No</b>           |
| Supplemental         | <b>14 hour days</b> |
| Benefits From Shade? | <b>No</b>           |

POTENTIAL DISEASES

Powdery mildew, Rhizoctonia

POTENTIAL PESTS

Thrips, Fungus Gnats, Aphids

PGR SUGGESTIONS

- 1,500-2500ppm B-Nine (85% Daminozide) spray
- 300-500ppm Florel (3.9% Ethephon)



TIPS

- Stick deeply up to the first set of leaves to allow stem roots to form.
- An optimal growing mix should be well drained with sufficient moisture retention to prevent daily wilting.
- Dahlias, in general, should be kept evenly moist avoiding dramatic wet-dry cycles
- Susceptible to powdery mildew and require a continuous preventative spray plan that begins in production.

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FINISHING

# DAHLIA SUMMER BEES

*Dahlia x hybrida*



| CONTAINER SIZE | PLANTS PER POT | TRANSPLANT TO FINISH (WEEKS) |
|----------------|----------------|------------------------------|
|----------------|----------------|------------------------------|

|                      |          |             |
|----------------------|----------|-------------|
| <b>Quart (12 cm)</b> | <b>1</b> | <b>7-10</b> |
|----------------------|----------|-------------|

|                       |            |             |
|-----------------------|------------|-------------|
| <b>2.5 QT (18 cm)</b> | <b>1-2</b> | <b>7-10</b> |
|-----------------------|------------|-------------|

|                       |            |             |
|-----------------------|------------|-------------|
| <b>10 in. (25 cm)</b> | <b>2-3</b> | <b>7-10</b> |
|-----------------------|------------|-------------|

## FERTILITY

|                 |                      |
|-----------------|----------------------|
| Fertilizer Rate | <b>150-200 ppm N</b> |
|-----------------|----------------------|

|          |                                      |
|----------|--------------------------------------|
| EC Range | <b>Moderate: (1.5-2.8mS via SME)</b> |
|----------|--------------------------------------|

|          |                |
|----------|----------------|
| pH Range | <b>5.6-6.2</b> |
|----------|----------------|

## TEMPERATURE

|                 |                          |
|-----------------|--------------------------|
| Day Temperature | <b>65-73°F (18-23°C)</b> |
|-----------------|--------------------------|

|                   |                          |
|-------------------|--------------------------|
| Night Temperature | <b>68-75°F (20-24°C)</b> |
|-------------------|--------------------------|

## IRRIGATION

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Irrigation Frequency | <b>Level 3: Keep media moderately moist with mild dry cycles</b> |
|----------------------|------------------------------------------------------------------|

## LIGHT

|                    |           |
|--------------------|-----------|
| Daylength Neutral? | <b>No</b> |
|--------------------|-----------|

|                     |                                        |
|---------------------|----------------------------------------|
| Optimum Light Level | <b>4,500-9,000 (48,400-96,900 lux)</b> |
|---------------------|----------------------------------------|

|              |                     |
|--------------|---------------------|
| Supplemental | <b>14 hour days</b> |
|--------------|---------------------|

|                      |           |
|----------------------|-----------|
| Benefits From Shade? | <b>No</b> |
|----------------------|-----------|

## PINCHING

|                  |                 |
|------------------|-----------------|
| Finishing Pinch? | <b>Optional</b> |
|------------------|-----------------|

|                            |              |
|----------------------------|--------------|
| Transplant to Pinch (days) | <b>10-14</b> |
|----------------------------|--------------|

## POTENTIAL DISEASES

Powdery Mildew, Rhizoctonia

## POTENTIAL PESTS

Thrips, Fungus Gnats, Aphids

## PGR SUGGESTIONS

- 2,500ppm B-Nine (85% Daminozide) spray
- 0.5ppm Bonzi (0.4% Paclobutrazol)



'Salmon Bicolor'

## TIPS

- Transplant deeply, can even bury the first set of leaves to allow stem roots to form.
- A complete blend 17-5-17 fertilizer is the best for a balanced well-shaped finished product.
- Dahlias are very responsive to PGRs; use the least harsh chemical treatment in your greenhouse to avoid stunting plants.
- Plants must be grown under long days with a minimum daylength of 14 hours but no more than 16 hours of sunlight a day. More than 16 hours daily will promote vegetative growth and delay flowering. Nighttime interruptions are not recommended as a substitute
- Can be pinched about 2 weeks after transplant when roots have established and top growth is obvious. Removing 1-2 nodes helps to improve branching and increase the number of blooms, but may delay flowering. Earlier pinching will reduce crop time and final height of plant.
- Continue preventative spray plan for powdery mildew.

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## FEATURES AND BENEFITS

# DAHLIA SUMMER BEES

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### KEY INFORMATION

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Primary Common Name            | <b>Dahlia</b>                                                 |
| Consumer Watering Instructions | <b>Water thoroughly when top 1 inch (3cm) of soil is dry.</b> |
| Bloom Time                     | <b>Blooms Spring to Autumn</b>                                |
| Exposure                       | <b>Full Sun to Part Shade</b>                                 |
| Height                         | <b>12-24 inches (30-61 cm)</b>                                |
| Garden Spacing                 | <b>10-12 inches (25-30 cm)</b>                                |

### DESCRIPTION

These dahlia with their single blooms in an array of colors are a pollinators paradise. They have a unique extended flowering season making them a great option for summer gardens.

### CONSUMER APPEAL

- The very charismatic and photogenic flowers make dahlias one of the strongest impulse buys at retail.
- The visually striking single bicolor flowers make great cut flowers.

### GARDEN ATTRIBUTES

- Good in containers located in high-traffic areas where onlookers can appreciate the showy flowers.
- These well-rounded plants maintain uniform growth and resist lodging with their strong stems.

### NATIVITY

Of hybrid origin: parental lineages native to Mexico.



'Purple Bicolor'



'Red Bicolor'

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