

Table 3. Arthropod and disease pest ratings^X on foliage for alstroemeria, dianthus, helichrysum, snapdragon and wallflower grown in a saran-shaded or full sun field, sprayed on demand at Bradenton, FL, and grouped within classes according to cultivar plant type, plant height, foliage color, and flower type and color.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating ^Y
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
Alstroemeria (<i>A. × hybrida</i>) lily of the Incas							
<i>Purple/rose/yellow class</i>							
Jazze Purple Rose	6.8 ^Z	----	----	4.8	----	----	5.5
<i>Rose/white/yellow class</i>							
Jazze Rose Frost	7.0	----	----	4.8	----	----	5.9
<i>Rose/yellow class</i>							
Jazze Deep Rose	7.0	----	----	4.3	----	----	5.8
Dianthus (<i>D. chinensis</i> L.); China pink, rainbow pink							
<i>Pink/red class</i>							
Super Parfait Strawberry	7.0	7.0	7.0	7.0	6.0	6.5	5.0
<i>Purple, red violet/white/red class</i>							
Super Parfait Raspberry	7.0	7.0	7.0	7.0	7.0	7.0	7.0

^X Foliage pest ratings for arthropods and disease on a 1 to 7 scale: 7- all foliage was free from arthropod feeding scars; 4- average foliage or condition, minimal pest damage to tissue, but foliage was still acceptable; 1- foliage severely infested and damage unacceptable, making foliage undesirable. **Rating 1:** 24-29 Jan. (all crops, excluding alstroemeria) 17 Mar. (alstroemeria- 1 ratings). **Rating 2:** 27 Feb.-2 Mar. (dianthus, viola and pansy); 7-9 Mar. (snapdragons).

^Y The sum of the arthropod and disease ratings averages divided by 2.

^Z Mean separation within classes by LSD, P < 0.05.

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
Dianthus (<i>D. barbatus</i> L.); Sweet William							
<i>Purple, blue violet class</i>							
Noverna Purple	7.0	----	7.0	7.0	----	7.0	7.0
<i>Purple, red violet class</i>							
Heritage Purple	6.0	7.0	6.2	6.0	1.0	5.0	5.6
<i>Red shades/tints class</i>							
Heritage Crimson	6.0	6.7	6.3	6.7	2.3	4.5	5.4
<i>White class</i>							
Heritage White	6.7	6.7	6.7	6.0	2.0	4.0	5.3
Dianthus (interspecific hybrids)							
<i>Dwarf – mixes class [D. chinensis (Linn.) X D. Barbatus (Linn.)]</i>							
Ideal Sweetheart Mix	7.0	7.0	7.0	6.7	6.3	6.5	6.8
<i>Dwarf – pink class [Dianthus hybrida]</i>							
Diamond Pink	7.0	7.0	7.0	6.7	7.0	6.8	6.9
<i>Dwarf – purple, red-violet class [Dianthus hybrida]</i>							
Diamond Purple	7.0	7.0	7.0	6.7	5.3	6.0	6.5
Ideal Violet	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	4.3 ^{NS}	3.3 ^{NS}	3.8 ^{NS}	5.4 ^{NS}
<i>Dwarf – purple, red-violet/white class [Dianthus hybrida]</i>							
Ideal Violet Picotee	6.7	6.3	6.5	6.7	7.0	6.8	6.7

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
<i>Dwarf – red [Dianthus hybrida]</i>							
Diamond Red	7.0	7.0	7.0	6.3	4.3	5.3	6.2
<i>Dwarf – red/white [Dianthus hybrida]</i>							
Ideal Cherry Picotee	7.0	6.7	6.8	7.0	6.7	6.8	6.8
Valentine	7.0	7.0	7.0	7.0	6.6	6.7	6.9
Telstar Picotee	7.0 ^{NS}	6.7 ^{NS}	6.8 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.9 ^{NS}
<i>Dwarf – red shades/tints [Dianthus hybrida]</i>							
Diamond Carmine Rose	6.0	6.7 a	6.3	6.7	7.0	6.8	6.6
Diamond Coral	7.0	6.7 a	6.8	7.0	6.0	6.5	6.7
Ideal Carmine	7.0	7.0 a	7.0	5.7	7.0	6.3	6.7
Telstar Carmine Rose	7.0	6.0 b	6.5	7.0	7.0	7.0	6.8
Telstar Crimson	7.0 ^{NS}	6.0 b	6.5 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.8 ^{NS}
<i>Dwarf – white [Dianthus hybrida]</i>							
Ideal White	7.0	7.0	7.0	6.3	6.7	6.5	6.8
<i>Dwarf – white to pink color shift class [Dianthus hybrida]</i>							
Diamond Blush Pink	7.0	7.0	7.0	6.3	7.0	6.7	6.9
<i>Tall – pink class [Dianthus interspecific]</i>							
Melody Pink	7.0	7.0	7.0	7.0	3.7	5.3	6.2
<i>Tall – purple, red-violet class [Dianthus interspecific]</i>							
Bouquet Purple	7.0	7.0	7.0	7.0	7.0	6.5	6.8

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
				<i>Tall – white class [Dianthus interspecific]</i>			
Melody White	7.0	7.0	7.0	7.0	7.0	7.0	7.0
				<i>Tall – white to pink color shift class [Dianthus interspecific]</i>			
Melody Blush Pink	7.0	6.7	6.8	7.0	4.3	5.7	6.3
				Helichrysum (<i>Helichrysum cassianum</i>); strawflower			
				Rose shades class			
Porcelain Rose Shades	7.0	7.0	7.0	5.7	5.7	5.7	6.3
				Snapdragon (<i>Antirrhinum majus</i> L.)			
				<i>Dwarf – open flower, mixes class</i>			
Bells Mix	7.0	7.0	7.0	7.0	5.3	6.2	6.6
				<i>Dwarf – open flower, purple, light blue-violet class</i>			
Bells Frosty Lavender	7.0	7.0	7.0	5.7	5.7	5.7	6.4
				<i>Dwarf – open flower, white class</i>			
Bells White	7.0	7.0	7.0	7.0	6.0	6.5	6.8
				<i>Dwarf – standard flower, bronze class</i>			
Floral Showers Deep Bronze	7.0	7.0	7.0	7.0	5.7	6.3	6.7
				<i>Dwarf – standard flower, mixes class</i>			
Palette Formula Mix	7.0	7.0	7.0	7.0	6.3	6.7	6.9
Floral Carpet Mix	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.7 ^{NS}	6.3 ^{NS}	6.7 ^{NS}

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
<i>Dwarf – standard flower, yellow/orange shades/tints class</i>							
Floral Showers Apricot Bicolor	7.0	7.0	7.0	7.0	6.3	6.7	6.9
<i>Dwarf – standard flower, orange/yellow class</i>							
Montego Orange Bicolor	7.0	7.0	7.0	6.7	5.0	5.8	6.4
<i>Dwarf – standard flower, purple, light blue-violet/white class</i>							
Floral Showers Lavender Bicolor	7.0	7.0	7.0	6.0	5.7	5.8	6.5
<i>Dwarf – standard flower, purple, red-violet class</i>							
Floral Showers Lilac	7.0	7.0	7.0	7.0	5.3	6.2	6.6
Floral Showers Purple	7.0	7.0	7.0	7.0	5.7	6.3	6.7
Montego Purple	7.0	7.0	7.0	7.0	5.3	6.2	6.6
Palette Purple	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.0 ^{NS}	6.5 ^{NS}	6.8 ^{NS}
<i>Dwarf – standard flower, purple, red-violet/white class</i>							
Floral Showers Fuchsia	7.0	7.0	7.0	7.0	6.3	6.7	6.9
Floral Showers Wine Bicolor	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.0 ^{NS}	6.5 ^{NS}	6.8 ^{NS}
<i>Dwarf – standard flower, red class</i>							
Floral Showers Crimson	7.0	7.0	7.0	6.3	5.7	6.0	6.5
Floral Showers Scarlet	7.0	7.0	6.8	7.0	5.0	6.0	6.5
Montego Red	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.3 ^{NS}	5.7 ^{NS}	6.0 ^{NS}	6.5 ^{NS}

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
<i>Dwarf – standard flower, red/white class</i>							
Floral Showers Coral Bicolor	7.0	7.0	7.0	7.0	5.7	6.3	6.7
<i>Dwarf – standard flower, red/yellow class</i>							
Floral Showers Red & Yellow Bicolor	7.0	7.0	7.0	7.0	6.0	6.5	6.8
<i>Dwarf – standard flower, rose class</i>							
Floral Showers Rose	7.0	7.0	7.0	6.3	5.3	5.8	6.4
Floral Showers Rose Pink	7.0	7.0	7.0	7.0	6.7	6.8	6.9
Palette Rose Eye	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.7 ^{NS}	6.3 ^{NS}	6.7 ^{NS}
<i>Dwarf – standard flower, white class</i>							
Floral Showers White	7.0	7.0	7.0	7.0	6.0	6.5	6.8
Montego White	7.0	7.0	7.0	7.0	5.3	6.2	6.6
Palette White	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.0 ^{NS}	6.5 ^{NS}	6.8 ^{NS}
<i>Dwarf – standard flower, yellow class</i>							
Floral Showers Yellow	7.0	7.0	7.0	7.0	6.0	6.5	6.8
Montego Yellow	7.0	7.0	7.0	7.0	5.7	6.3	6.7
Palette Yellow	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.0 ^{NS}	6.5 ^{NS}	6.8 ^{NS}
<i>Tall – open flower, bronze class</i>							
La Bella Medium Bronze	7.0	6.7	6.8	7.0	6.0	6.5	6.7

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
				<i>Tall – open flower, pink class</i>			
La Bella Light Pink	7.0	7.0	7.0	7.0	5.7	6.3	6.7
				<i>Tall – open flower, red class</i>			
La Bella Red	7.0	6.7	6.8	6.3	6.0	6.2	6.5
				<i>Tall – open flower, purple, red-violet class</i>			
La Bella Purple	7.0	7.0	7.0	7.0	6.0	6.5	6.8
				<i>Tall – standard flower, bronze class</i>			
Coronette Bronze	7.0	7.0	7.0	7.0	6.3	6.7	6.9
Sonnet Bronze	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.7 ^{NS}	6.3 ^{NS}	6.7 ^{NS}
				<i>Tall – standard flower, mixes class</i>			
Kim Mix	7.0	7.0	7.0	7.0	6.7	6.8	6.9
Solstice Mix	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.3 ^{NS}	6.2 ^{NS}	6.6 ^{NS}
				<i>Tall – standard flower, orange/yellow/white class</i>			
Solstice Orange Tricolor	7.0	7.0	7.0	7.0	6.0	6.5	6.8
				<i>Tall – standard flower, pink class</i>			
Coronette Pink	7.0	7.0	7.0	7.0	6.3 a	6.7 a	6.9 a
Freesong Pink	7.0	7.0	7.0	7.0	6.0 ab	6.5 a	6.8 a
Solstice Pink	7.0	7.0	7.0	7.0	5.0 c	6.0 b	6.5 b
Sonnet Pink	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.7 ^{NS}	5.3 bc	6.0 b	6.5 b

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
<i>Tall – standard flower, purple, blue-violet class</i>							
Liberty Classic Lavender	7.0	7.0	7.0	7.0	6.0	6.5	6.8
<i>Tall – standard flower, purple, red-violet class</i>							
Coronette Orchid	7.0	6.7	6.8	7.0	6.7 a	6.8 a	6.8
Solstice Burgundy	7.0	7.0	7.0	7.0	6.0 ab	6.5 ab	6.8
Solstice Purple	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.3 b	6.2 b	6.6 ^{NS}
<i>Tall – standard flower, red class</i>							
Coronette Cherry	7.0	7.0 a	7.0 a	7.0	6.0	6.5	6.8
Coronette Deep Red	7.0	7.0 a	7.0 a	7.0	6.7	6.8	6.9
Crown Red	7.0	7.0 a	7.0 a	7.0	6.0	6.5	6.8
Crown Scarlet	7.0	6.0 b	6.5 b	7.0	6.7	6.8	6.7
Freesong Cherry	7.0	7.0 a	7.0 a	7.0	6.3	6.7	6.9
Freesong Scarlet	7.0	7.0 a	7.0 a	7.0	6.0	6.5	6.8
Liberty Classic Cherry	7.0	6.7 a	6.8 a	7.0	6.7	6.8	6.9
Sonnet Crimson	7.0 ^{NS}	7.0 a	7.0 a	7.0 ^{NS}	6.3 ^{NS}	6.7 ^{NS}	6.9 ^{NS}
<i>Tall – standard flower, rose class</i>							
Crown Rose	7.0	6.7	6.8	7.0	6.7 ab	6.8 ab	6.9 ab
Liberty Classic Rose Pink	7.0	7.0	7.0	7.0	7.0 a	7.0 a	7.0 a
Sonnet Rose	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	6.0 b	6.5 b	6.8 b
<i>Tall – standard flower, white class</i>							
Coronette White	7.0	7.0	7.0	7.0	6.0 ab	6.5 ab	6.8
Crown White	7.0	7.0	7.0	7.0	5.3 b	6.2 b	6.6
Liberty Classic White	7.0	7.0	7.0	7.0	6.3 a	6.7 a	6.9
Sonnet White	7.0 ^{NS}	6.7 ^{NS}	6.8 ^{NS}	7.0 ^{NS}	6.0 ab	6.5 ab	6.7 ^{NS}

Table 3. Continued.

Cultivar	Arthropod – Foliage			Disease – Foliage			Overall Foliage Pest Rating
	Rating 1	Rating 2	Avg.	Rating 1	Rating 2	Avg.	
<i>Tall – standard flower, yellow class</i>							
Coronette Yellow	7.0	7.0	7.0	7.0	6.0	6.5 a	6.8 a
Crown Yellow	7.0	7.0	7.0	7.0	6.0	6.5 a	6.8 a
Freesong Yellow	7.0	6.7	6.8	6.7	5.3	6.0 b	6.4 b
Liberty Classic Yellow	7.0	7.0	7.0	7.0	6.0	6.5 a	6.8 a
Solstice Yellow	7.0	7.0	7.0	7.0	5.3	6.2 ab	6.6 ab
Sonnet Yellow	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	7.0 ^{NS}	5.0 ^{NS}	6.0 b	6.5 ab
<i>Tall – standard flower, yellow/red class</i>							
Crown Candy Corn	7.0	7.0	7.0	7.0	6.0	6.5	6.8
Wallflower (<i>Cheiranthus cheiri</i> Linn.) <i>Yellow class</i>							
Charity Cream Yellow	7.0	5.0	6.0	7.0	6.3	6.7	6.3
Charity Yellow	7.0 ^{NS}	4.7 ^{NS}	5.8 ^{NS}	7.0 ^{NS}	6.3 ^{NS}	6.7 ^{NS}	6.3 ^{NS}