

**Perennial Flower Performance Data
Sun vs. Shade**

Dickinson Research Extension Center 2005-06

Table #2

Foliage Color Codes	
G -Green	PG -Purple
DG -Dark Green	YG -Yellow Green
LG -Light Green	BG -Blue Green

Bloom Color Codes	
B -Blue	P -Purple
BU -Burgandy	R -Red
M -Mixed	W -White
PK -Pink	Y -Yellow
NA -Not Applicable	

DATE EVALUATED: September 19, 2005 **BY: Jerry Larson & Frank Kutka**
LOCATION: Sunny **EVALUATION SCALE: 1-5**

VARIETY	Size			Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
	Bed	Ht.	Width		Color	Quality	Color	Value		
28.' Varigata' Goldenrod	1	4.5"	16.5"	4	NA	NA	G	4	4	Some leaf scorch, compact growth
30. 'Fireworks' Goldenrod	1	33"	16"	5	Y	4	G	4	5	Excellent fall color-blooms
16. Flag Iris	1	20"	14.5"	3	NA	NA	YG	3	3	Yellow leaves, tip burn
19. 'Alexandar' Yellow Loose Strife	1	28"	17"	4	NA	NA	Y	3	3	Some witches broom, transplant shock
4. 'Happy Returns' Daylily	1	12"	26"	2	NA	NA	LG	3	2	Poor growth, stunted
12. 'Prairie Dusk' Beard Tongue	1	16"	12"	4	NA	NA	G	4	4	Healthy, compact growth

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
5. 'Brookside' Geranium	1	24"	14"	4	NA	NA	LG	4	4	Mounded growth form
22. 'Garden View' Bee Balm	1	9"	22"	3	BU	NA	LG	2	2	Leaf drop mildew
25. 'Golden Pygmy' Leopards Bane	2	5.5"	14"	4	NA	NA	G	4	4	Large leaves
10. 'White Clips' Bellflower	2	4"	6"	2	W	2	G	2	2	Poor growth , small
24. 'Garden Queen' Globeflower	2	19"	15"	4	BU	NA	DG	5	4	Unique leaves, upright growth
6. 'Vision' Geranium	2	6.5"	8"	2	NA	NA	G	2	2	Weak, showing stress
32.'Frosted Violet' Coral Bell	2	9"	19"	5	NA	NA	P	5	4	Very nice, compact mound
18. 'Giles Van Hees' Speedwell	2	10"	13"	3	P	3	G	3	3	Elongated flower spikes
3. 'Chicago Heirloom' Daylily	2	20"	33"	3	NA	NA	LG	2	3	Brown leaves , tip burn
14.'Spring Delight' Phlox	2	3.5"	17"	3	NA	NA	G	3	3	Creeping/spreading growth

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
1. 'Vera Jameson' Stonecrop	3	7.5"	28"	5	PK	4	P	4	5	VARIETY
27. Soapwort	3	10"	34"	4	PK	3	G	3	3	Leggy growth
13. 'Baby face' Phlox	3	14"	10"	3	PK	2	G	2	2.5	Leaf spot lower leaves
30. 'Fireworks' Golderod	3	30"	22"	5	Y	5	G	4	5	Lots of Bees, upright growth, healthy
23. Lupine	3	12"	23"	3	NA	NA	LG	3	3	Some brown leaves, transplant shock
26. 'Sun Ray' Lily	3	13"	4"	0	NA	NA	NA	0	1	Top growth appears dead
7. 'Black Barlow' Columbine	3	5"	7"	1	NA	NA	BG	2	2	Mildew, poor growth
28. 'Variegata' Goldenrod	3	20"	32"	3		NA	Variegated G	3	2.5	Sport Growth
9. 'Aurea' Bellflower	4	1.5"	3"	1	NA	NA	Y	1	1	Extremely poor growth
15. 'Matrona' Stonecrop	4	23"	29"	5	PK	5	DG	5	5	Purple stems ,Bees
15. 'Ceasars Brother' S. Iris	4	17"	28"	1	NA	NA	NA	1	1	Poor condition, lots of stress

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
17.'Lavender Flame' Speedwell	4	15"	19"	3	NA	NA	DG	3	3	Compact growth
21. 'Raspberry Wine' Bee Balm	4	31"	10"	2	Bu	NA	YG	1	2	Dropped leaves, mildew, ugly
29.'Thriller' Ladies Mantle	4	6.5"	15"	4	NA	NA	G	4	4	Unique round leaves, compact
11. 'Husker Red' Beard Tongue	4	18"	5"	2	NA	NA	PG	3		Poor Growth
8. 'Woodside' Columbine	4	15"	27"	3	NA	NA	LG	2	2	Spreading growth, leggy, yellow leaves, leaf spot, mildew
14.'Spring Delight' Phlox	5	4"	10"	3	NA	NA	G	3	3	Yellow leaves, spreading ground cover
24.'Golden Queen' Globe Flower	5	9"	11"	3	NA	NA	G	3	3	Unique leaves, brown leaves,
27. Soapwort	5	9"	17"	3	P	NA	BG	3	3	Spreading, seed heads
12. 'Prairie Dusk' Beard Tongue	5	12"	12"	4	NA	NA	DG	4	4	Healthy, attractive, foilage

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
20. 'Golden Alexander' Yellow Loose Strife	5	23"	16"	3	NA	NA	Varigated G	3	3	Spots, leaf scorch, locks vigor
4. 'Happy Returns' Daylily	5	17"	14"	3	NA	NA	G	3	3	Limited growth, brown leaves
6. 'Vision' Geranium	5	10"	13"	3	P	2	G	4	3	Poor growth, unique leaves
1. 'Vera Jameson' Stonecro[5	11"	18"	4	P	3	P	4	4	Spreading ground cover, good accent plant
32. 'Frosted Violet' Coral Bells	6	10"	16"	4	NA	NA	GP	5	4	Attractive foilage, mounded growth
11. 'Husker Red' Beard Tongue	6	21"	16"	4	NA	NA	P	4	4	Very Health
10.'White Clips' Bellflower	6	4.5"	6"	3	W	NA	G	2	2	Small, poor growth
21. 'Raspberry Wine' Bee Balm	6	29"	7"	2	NA	NA	YG	2	2	Chlorpois ,leaf drop, brown stems
22. Garden View' Geranium	6	22.5"	16"	3	Bu	2	YG	2	2	Chlorpois, leaf drop, volunteers

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
29. 'Thriller' Lady's Mantle	6	7.5"	15"	5	NA	NA	G	4	4	Large unique leaves, mounded
28.'Variegata' Goldenrod	6	7"	13"	4	NA	NA	G	3	3	Mildew lower leaves
17.'Lavender Flame' Speedwell	6	15"	11"	3	NA	NA	G	3	3	Serious leaf spot, dead blooms
5. 'Brookside' Geranium	7	17"	21"	5	P	NA	G	5	5	Bright bloom color, attractive foliage, mounding
19. 'Alexander' Yellow Loosestrife	7	19"	18"	4	NA	NA	Varigated G	3	3	Spots, leaf scorch
15. 'Ceasar's Brother' Siberian Iris	7	13"	17"	4	NA	NA	G	4	3	Brown leaf tips
13. 'Babyface' Phlox	7	14	10	3	P	3	G	3	3+	Leaf spot, unique double bloom
9. 'Aurea' Bellflower	7	1.5"	3"	1	NA	NA	Y	1	1	poor growth & vigor,
26. 'Sun Ray' Lily	7	14"	2"	1	NA	NA	NA	1	1	Top growth , appears dead
2. 'Matrona' Stonecrop	7	22.5"	17.5"	4	P	4	PG	4	4	White spots on leaves, Bees

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
18.'Giles van Hees' Speedwell	7	8"	9"	4	P	3	G	3	3+	Attractive blooms, small
12. 'Prairie Dusk' Beard Tongue	8	15"	16"	3	NA	NA	DG	4	3	No blooms, some leaf drop
31.'Palace Purple' Coral Bell	8	9"	5"	1	NA	NA	PG	1	1	Poor growth, vigor
8. Woodside' Columbine	8	12"	18"	3	NA	NA	YG	3	3	Stem lodging, spreading growth
3. 'Johnson's Blue' Geranium	8	9"	5"	5	NA	NA	G	5	5	Unique leaves, mounded
16. Flag Iris	8	9.5"	12"	4	NA	NA	G	3	3	Limited Growth, brown leaf tips
23. Lupine	8	12"	8.5"	2	NA	NA	YG	2	2	Leaf scorch, twisted leaves
7. 'Black Barlow' Columbine	8	10.5"	8"	2	NA	NA	G	2	2	Poor, leggy, growth
25, 'Golden Pygmy' Leopards Bane	8	7"	11.5"	4	NA	NA	G	4	3+	Compact, mounded, attractive leaves

Shade Bed	Bed #	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
31. 'Palace Purple' Coral Bell	11	16"	7.5"	3	NA	NA	PG	4	3	Holes in leaves, mounded growth
30. 'Fireworks' Goldenrod	11	29"	3"	4	Y	3	DG	3	4	Slow growth, upright
16. Flag Iris	11	18"	39"	4	NA	NA	G	3	3	Leaf scorch, brown tips
19. 'Alexander' Yellow Loose Strife	11	16.5"	24"	4	NA	NA	Varigated G	3	3	Attractive foliage, brown tips
4. 'Happy Returns' Daylily	11	15.5"	31"	2	NA	NA	G	2	2	Poor growth, brown leaves
12. 'Prairie Dusk' Beard Tongue	11	13.5"	2'	1	NA	NA	G	1	1	Top die back, animal damage
5. 'Brookside' Geranium	11	17"	4'	3	NA	NA	G	3	3	Lacks mounded growth, deer damage, upright
22. 'Garden View' Bee Balm	11	15"	8"	2	NA	NA	YG	2	2	Mildew, Poor leaf development, leggy
25. 'Golden Pygmy' Leopard Bane	12	5"	5"	2	NA	NA	YG	2	2	Deer injury, poor growth, small
10. 'White Clips' Bellflower	12	4"	5"	3	NA	NA	G	2	3	Limited growth, compact mounded

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
24 'Garden Queen' Globe-flower	12	10"	17"	3	NA	NA	G	3	3	Broken stems, attractive foilage
6 'Vision' Geranium	12	6.5"	12"	3	NA	NA	G	3	3	Brown tips mounded, round leaves
32. 'Frosted Violet' Coral Bell	12	6"	13.5"	3	NA	NA	PG	4	3	Attractive foliage , leaf shape
18 'Giles Van Hees' Speedwell	12	6"	4"	1	NA	NA	G	1	2	Stunted, looks sick
3 'Chicago Heirloom' Daylily	12	18.5"	16"	3	NA	NA	LG	3	3	Brown leaves, spreading growth
14. 'Spring Delight' Phlox	12	12"	7"	1	NA	NA	G	1	1	Purple stems, poor growth, brown leaves
27 Soapwort	13	14"	8.5"	2	NA	NA	G	2	2	Poor, spreading growth, leggy
13 'Babyface' Phlox	13	14"	3"	3	P	2	DG	3	3	Holes in leaves upright growth

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
20 'Golden Alexander' Yellow Loosestrife	13	15.5"	12"	3	NA	NA	Variegated	3	2	Lodge stems, limited growth
14. 'Vera Jameson' Stonecrop	13	16"	10"	3	P	4	PG	4	4	Brown spots, holes in leaves, spreading
23. Lupine	13	17"	4"	2	NA	NA	G	2	1	Sparse growth, lacks vigor
26. 'Sun Ray' Lily	13	15"	15"	0	NA	NA	NA	NA	0	Above ground growth appears dead
7. 'Black Barlow' Columbine	13	10"	10"	3	NA	NA	G	3	3	Leaf spot, leggy growth
28. 'Golden Alexander' Yellow Loose Strife	13	6"	14"	3	NA	NA	LG	3	3	Holes in leaves, large leaves lays on ground
9. 'Aurea' Bellflower	14	3"	5"	2	NA	NA	Y	2	2	Small compact, limited growth
2. 'Matrona' Stonecrop	14	25"	23"	4	P	3	G	4	4	Holes in leaves, upright
15. 'Caesar's Brother' Siberian Iris	14	14"	29"	3	NA	NA	G	3	3	Leaf spot (better in shade)

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
17. 'Lavender Flame' Speedwell	14	26'	33'	5	NA	NA	G	4	4	White spots on leaves (better in shade)
21. 'Raspberry Wine' Bee Balm	14	34"	6"	3	NA	NA	G	2	2	No Lower leaves, mildew, ugly
29. 'Thriller' Lady's Mantle	14	8"	13"	3	NA	NA	G	2	2	Leaf scorch, poor growth, brown leaves (+Sun)
11. 'Huskers Red' Beard Tongue	14	14.5"	5"	2	NA	NA	PG	2	2	Poor growth, stunted (+Sun)
8. 'Woodside' Columbine	14	11"	14"	3	NA	NA	G	3	3	Mildew, deer damage, scorch, (+Sun)
30. 'Fireworks' Goldenrod	15	22"	8"	4	Y	4	G	3	4	Brown lower leaves
24. 'Garden Queen' Globe Flower	15	26"	17"	4	NA	NA	G	4	5	Leaf scorch, broken flower stalks
27. Soapwort	15	11"	16"	2	NA	NA	G	2	2	Poor growth, leggy

VARIETY	Bed	Size		Plant Vigor	Bloom		Foliage		O. Value Rating	Comments
		Ht.	Width		Color	Quality	Color	Value		
19. 'Alexander' Yellow Loosestrife	15	14"	16.5"	3	NA	NA	Varigated	3	3	Deer damage, brown leaves
4. 'Happy Returns' Daylily	15	16.5"	18"	3	NA	NA	G	3	3	Brown tips, limited growth (+Shade)
6. 'Vision' Geranium	15	4-5"	11"	3	NA	NA	G	4	3	Lacking vigor, limited growth
1. 'Vera Jameson' Stonecrop	15	8"	14"	4	P	3	PG	4	4	Insect damage
12. 'Palace Purple' Coral Bell	15	11"	16"	4	W	NA	PG	4	4	Unique foilage, color, shape
32. 'Frosted Violet' Coral Bells	16	8"	14"	3	NA	NA	PG	4	3	Unique foilage, compact growth
11. 'Huskers Red' Beards-tongue	16	21"	6"	3	NA	NA	PG	4	3	Purple stem, white spots
10. 'White Clips' Bell-flower	16	4"	2"	1	NA	NA	NA	NA	1	Appears dead

		Size			Bloom		Foliage			
VARIETY	Bed	Ht.	Width	Plant Vigor	Color	Quality	Color	Value	O. Value Rating	Comments
21. 'Raspberry Wine' Bee Balm	16	25"	6"	3	BU	2	LG	2	2	Mildew, Chlorosis
22. 'Garden View' Geranium	16	24"	13"	3	R	2	YG	2	2	Chlorosis, mildew, most leaves
29. 'Thriller' Lady's Mantle	16	6.5"	11"	3	NA	NA	G	3	3	Brown leaves unique leaves (+Sun)
28. 'Variegata' Goldenrod	16	6"	13"	3	NA	NA	Variegated	3	3	Holes in leaves, low browning
17. 'Lavender Flame' Speedwell	16	19"	13"	3	NA	NA	DG	3	3	Leaf spot, brown lower leaves
3. 'Chicago' Heirloom Daylily	17	22"	8"	3	NA	NA	G	2	2	Brown leaves, under stress
13. 'Babyface' Phlox	17	17"	1-5"	3	NA	NA	DG	3	3	Brown lower leaves, deer damage

		Size			Bloom		Foliage			
VARIETY	Bed	Ht.	Width	Plant Vigor	Color	Quality	Color	Value	O. Value Rating	Comments
9. 'Aurea' Bellflower	17	4"	4"	3	NA	NA	YG	2	2	Small, limited value
26. 'Sun Ray' Lily	17	19"	22'	2	NA	NA	NA	2	2	Brown tops, brown leaves
2. 'Matrona' Stonecrop	17	22"	3"	3	NA	NA	NA	NA	1	Totally striped by deer
18. 'Giles Van Hees' Speedwell	17	10"	3"	2	P	NA	G	2	2	Poor growth, lacks vigor
19. 'Alexander' Yellow Loosestife	17	13"	7"	3	NA	NA	Variegated	3	2	Stunted, deer damage
15. 'Caesar's Brother' Siberian Iris	17	22"	16"	4	NA	NA	LG	4	4	White spots, some lodging (+Shade)
14. 'Spring Delight' Phlox	18	10"	3"	2	NA	NA	LG	2	2	Purple stems chewed leaves
31 'Palace Purple' Coral Bells	18	7"	14"	3	NA	NA	PG	4	3	Limited growth, compact

		Size			Bloom		Foliage			
VARIETY	Bed	Ht.	Width	Plant Vigor	Color	Quality	Color	Value	O. Value Rating	Comments
8. 'Woodside' Columbine	18	7"	14"	2	NA	NA	G	2	2	Mildew, brown leaves
3 'Chicago Heirloom' Daylily	18	21.5"	30"	2	NA	NA	G	3	2	Deer injury, white spots
16. 'Flag' Iris	18	17"	24'	4	NA	NA	LG	3	3	Brown tip
23 Lupine	18									Gone-Dead
7 'Black Barlow' Columbine	18	10"	7"	4	NA	NA	LG	3	3	Mildew, poor growth
25 'Golden Pygmy' Leopard's Bane	18	3.5"	7"	3	NA	NA	G	2	2	Stunted