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LILIES IN THEIR ORDER OF BLOOM

THE Lily Demonstration Plots of the Arnold Arboretum were started in the fall of 1962, as the result of a cooperative effort between the New England Lily Group of the North American Lily Society and the Arnold Arboretum. At present there are 250 species and varieties of lilies growing in these plots and the majority of them have bloomed in 1963 and again in 1964. During the blooming periods careful weekly notes were taken each year. Since I have had little previous experience in growing lilies, some of the information noted was elementary, especially to the experienced lily grower. However, the best way to become acquainted with any plant is to make frequent observations and take profuse notes, which we did.

The following table is of value because it shows the sequence in which this large collection of lilies has bloomed under the conditions at the Case Estates of the Arnold Arboretum where they are planted. The date of emergence (not given in the following table, but it was April 20-June 1 for almost all of them this year), the height of the tallest stalk, the number of flowers and the size of the flowers on the stalk are all characteristics varying with the age of the bulb, the amount of available water and soil fertility, but it has been interesting, in learning about lily growth, to note such information during the past two years.

Since these lilies are growing in beds adjacent to one another on the same piece of ground, the blooming dates, as well as the number of days of bloom, are comparable. The other notes are given merely "for the record." It was deemed advisable to list the lilies as they come into bloom by weekly intervals. The column listing the number of days the flowers remain in good condition contains some interesting figures for comparison.

Color comparisons are always difficult. The most prominent color in the newly opened flower was compared with the American Horticultural Society's color fan. Most flowers fade as they mature and lilies are no exception. The colors noted are those in the flower the first day it opened. Precise color descriptions cannot

be listed in a table of this type, since one flower may be of several colors—more pronounced toward the center of the corolla, fading to lighter colors towards the edges of the petals; hence these notes are to be considered as only a general indication of flower color. In the column on flower size, the first figure is the overall diameter of the flower; the second figure is the depth of the corolla.

The "type of flower" has been generally indicated thus:

- E — Flower erect on stalk, either bowl-shaped (b) or starry-shaped (s).
 T — Trumpet-shaped, short (s) if corolla is under 5" long; long (l) if 5" or over in length.
 H — Flowers held horizontally on the stalk. This is an excellent trait and makes for a good display.
 N — Flowers nodding on stalk, either pendulous (p) or bell-shaped, or with the flower widely open and petals reflexed (r).

It is hoped that growers who do not see their favorites in this list will send them to the Arnold Arboretum, Jamaica Plain, Mass. for further trial.

Lilies in their Order of Bloom
Case Estates of the Arnold Arboretum

Notes taken June–September 1964

Name and Week First Flower Opened	No. Days in Bloom	No. Flowers per Stalk	Size of Flower (width and depth in inches)	Height of Stalk (in inches)	Color	Type of Flower
June 7						
'Beacon'	25	4	5 × 2	38	5YR 7/11	E s
June 14						
'Achievement'	17	9	2½ × 1	26	white	N r
'Adagio'	27	14	3 × 1	44	10R 5/10	H
'Azalia'	18	7	5 × 3	24	7.5YR 7/4	E s
Butterball Strain	44	14	3 × 1	50	5YR 8/6 (varies)	N
Coronado Hybrids	22	3	4 × 3	13	7.5YR 7/11	E b
'Corsage'	26	12	4 × 1	33	2.5R 8/5 to pale yellow	H
'Dieppe'	24	9		34	dark reddish	E s
'Earlibird'	27	12	5½ × 3	25	2.5YR 6/12	
'Fireflame'	26	10	5½ × 3	24	10R 4/9	H
'Grand Slam'	20	14	4½ × 3	38	7.5R 4/1	E s
'Harmony'	25	16	4½ × 3	29	5YR 7/11	E b

June 14 (cont.)

'Lemon Queen'	28	12	$4\frac{1}{2} \times 2$	46	5Y 8/12	H
<i>L. cancolor coridion</i>	15	9	1×1	20	5Y 8/12	H
<i>L. dauricum</i>	15	6	$2\frac{1}{2} \times 2\frac{1}{2}$	20	10YR 8/10	E b
<i>L. grayi</i>	14	1	2×2	12	7.5R 5/13	H
<i>L. hansonii</i>	14	4	$2\frac{1}{2} \times \frac{3}{4}$	28	yellow	H
<i>L. kelloggii</i>	16	2	2×2	12	2.5RP 7/8	N p
<i>L. martagon album</i>	15	4	$2\frac{1}{2} \times 1\frac{1}{2}$	27	white to 7.5Y 9/8	N r
'Mountaineer'	18	2	$4\frac{1}{2} \times 1\frac{1}{2}$	20	10R 5/11	E
'Mrs. R. O. Backhouse'	13	16	$3\frac{1}{2} \times 1$	54	5YR 7/11	N r
Paisley Strain	23	11	$2\frac{1}{2} \times 1$	31	2.5RP 9/2	N r
'Queen of Hearts'	20	5	5×2	27	10R 5/11	E s
Rosette Hybrids	42	17	$2\frac{1}{4} \times$	42	5Y 8/12	H
'Scottiae'	25	9	$5 \times 2\frac{1}{2}$	20	10R 6/12	E s
'Sunspot'	19	5	$4\frac{1}{2} \times 1\frac{1}{2}$	20	7.5R 4/11	E s
'Tabasco'	18	13	5×2	32	7.5R 4/11	E s
Terrace City Hybrids	17	14	3×1	53	10YR 7/10	N r
'Toccata'	21	12	4×2	38	7.5YR 8/8	N r

June 21

'Amaryllis'	11	4		18	2.5YR 6/11	E
'Brandywine'	17	2	$3\frac{1}{2} \times 1$	17	5YR 7/11	H
'Brocade'	18	28	$2\frac{1}{2} \times \frac{3}{4}$	58	7.5YR 6/9	N r
'Buttercup'	17	7	$3 \times 1\frac{1}{2}$	44	2.5YR 8/11	N r
'Cinnabar'	19	8	$2\frac{1}{2} \times 2$	20	7.5R 5/13	E
'Corsair'	18	11	$3\frac{1}{2} \times$ —	29	5YR 7/11	E s
'Destiny'	24	6	$5\frac{1}{2} \times 2$	26	5Y 8/12	E s
'Enchantment'	28	25	$5\frac{1}{2} \times 2$	36	10R 6/12	E s
Golden Chalice	37	3	3×2	12	yellow	H
Hybrids						
'Golden Jubilee'	22	10	$4 \times$ —	18	5YR 7/11	E s
'Guinea Gold'	8	11	$1\frac{1}{2} \times \frac{3}{4}$	41	7.5YR 8/8	H
Harlequin Hybrids	18	13	$2\frac{1}{2} \times 1\frac{1}{2}$	34	7.5R 9/3	N r
<i>L. amabile</i>	8	1	$2\frac{1}{4} \times 1\frac{1}{2}$	12	10R 6/12	N r
<i>L. candidum</i>	17	13	$2\frac{1}{2} \times 3\frac{1}{2}$	42	white	T s
<i>L. tsingtauense</i>	22	4	$3\frac{1}{2} \times 2$	20	10R 6/12	E s
'Meadowlark'	20	6	$5 \times$ —	16	7.5Y 9/8	E s
'Mego'	10	3	$4\frac{1}{2} \times 1\frac{1}{2}$	26	2.5Y 9/9	E
'Orchid Queen'	17	8		25	2.5RP 8/5	H
'Overture'	22	12	$2\frac{1}{2} \times 1\frac{1}{2}$	38	2.5YR 9/3	H
'Paprika'	11	6	$5 \times 1\frac{1}{2}$	18	7.5R 4/11	H
'Primadonna'	7	7	2×1	27	7.5R 9/3 to whitish	H
'Prosperity'	19	12	4×2	23	2.5Y 8/12	H

June 21 (cont.)

'Tarantella'	17	11	4 × 2	36	5YR 8/7	N r
'Red Bird'	18	17	4½ × 2	48	7.5R 4/11	H
'Sonata'	22	11	3 × 1½	40	2.5YR 9/6	N r
'Sunshine'	24	12	3 × —	29	2.5Y 8/12	H

June 28

'Amber Gold'	17	9	2½ × 1½	36	2.5Y 8/12	N r
Bellingham Hybrids	18	11	3 × 2	46	10R 6/12	N r
Brigadier Hybrids	29	2	6 × 3	20	5YR 7/8	E
'Bronze Queen'	17	21	2½ × 1½	47	5YR 6/11	N r
Burgundy Ball Strain	6	13	2½ × 2	25	10R 4/9, varies	N
'Croesus'	17	4	5 × 3	10	2.5Y 8/12	Es
'Dora Pinnow'	26	10	4 × 3	42	7.5Y 9/8	N r
'Dunkirk'	21	13	5 × 2	34	7.5R 4/8	E
'Edith Cecillia' × 'Rosabelle #1'	15	14		38	7.5RP 5/12-4/11	H
'Evening Star'	24	14	3¼ × —	27	10R 6/12	Es
'Firecrown'	17	6		24	10R 6/2	Es
'Flame' × 'Xmas Red' #4'	11	14	5 × 3	43	7.5YR 6/9	Eg
'Gold Flake'	29	2	5 × 2½	15	5YR 7/11	E
'Hurricane'	27	15	3½ × —	34	7.5R 4/11	E
'Joan Evans'	18	7	5 × 2½	24	5YR 7/11	Es
'Lady Lou'	25	32	3½ × —	54	10R 5/11	H
<i>L. amabile luteum</i>	11	7	2½ × 1½	34	5Y 8/12	N r
<i>L. taliense</i>	13	1	2 × 1	36	7.5P 7/7	N r
'Mystic Gold'	27	13	5 × 1½	33	5Y 8/12	H
'Orange' × 'Flame'	18	6	3 × 1		10R 5/11	E
'Primrose Lady'	17	12	2¾ × 1	39	pale yellow	N r
'Rosabelle'	18	6	4 × —	26	10R 7/4	Es
'Rose Dawn'	18	9	3 × 1	33	5R 6/11	H
Sentinel Strain	15	4	5½ × 5	29	white	Tl
'Shuksan'	11	5	2½ × 2	31	7.5YR 7/11	N r
'White Princess'	30	8	3 × 1½	31	7.5R 9/3	N r

July 5

African Queen Strain	24	11	5 × 3½	50	10YR 8.5/7	Ts
'Afterglow'	16	6	2½ × —	30	7.5R 5/13	
'Amethyst Temple'	19	8	5 × 4	49	2.5RP 6/10	Ts
Apricot Royal Trumpets	16	3	5 × 4	29	10YR 8/10, varies	Ts
Bronzino Strain	7	6	2½ × 1½	24	yellowish bronze	N r
'Burnished Gold'	21	17	6 × 6	56	7.5Y 9/8	Tl

July 5 (cont.)

Carrara Strain	17	7	6×5	36	white to yellow	Tl
Celestial Hybrid						
Helies Strain	23	9	5×4½	44	5Y 9/9	Ts
'Dainty Lass'	16	1	5×4	23	10P 6/10	Ts
'Delicious'	20	23	3¾×—	35	7.5YR 7/11	E
Fascination Strain	15	13	7×7	50	white	Tl
'Gold Urn' × <i>philadelphicum</i> #2	11	4		18	7.5R 6/12	Es
'Golden Clarion'	16	2	4½×3½	29	5Y 9/9	Ts
Golden Showers Strain	31	6	5×3½	42	10Y 9/10	Nr
Golden Splendor Strain	18	4	5½×4½	34	5Y 9/9	Ts
'Green Dragon'	7	4	7×5	36	pale yellow	Tl
'Lemon Fair'	7	2	5×4	24	white to yellowish	Ts
'Lemon Lady'	11	2	3×1	16	5Y 9/9	H
<i>L. cernuum</i>	21	12	1½×1	15	5RP 8/5	Nr
<i>L. davidii macranthum</i>	29	90	3×½	60	3.5YR 6/12	Nr
'Limelight'	16	5	6×4	36	7.5Y 8/12	Ts
Majestic Hybrids	22	12	5×5	43	10P 8/6 to white	Tl
Majestic Strain	15	4	6×4½	32	2.5GY 8/6	Ts
'Red Knight'	25	27	4×1½	37	7.5R 3/7	H
'Rose Queen'	9	10	3×1	31	7.5RP 7/10	Nr
Shelburne Yellow Trumpets	16	5	5×5	44	7.5Y 9/8	Tl
'Spitfire'	19	16	3½×2	27	10R 6/12	Es
'Sun Temple'	23	7	4½×5	49	7.5Y 9/8	Tl
'White Gold'	10	5	2¾×1	29	pale yellow	Nr
White Trumpets	16	4	5×5½	38	white	Tl
'Winter Sunset'	14	7	5½×4½	41	10P 7/8 to whitish	Ts

July 12

'Big Tom'	25	12	7×4	42	10YR 8/10	Ts
'Black Dragon'	15	4	7×5	44	white to 5RP 2/8	H
Black Magic Strain	15	4	5×5	47	white to purplish	H
'Bright Star'	21	5	5½×2	33	yellowish to white	Nr
Burgundy Strain	15	7	2½×1	14	7.5R 4/11	Nr
'Charity'	21	9	7×4	25	5Y 5/13	Ts
'Damson'	16	3	4½×4	26	2.5RP 3/10	Ts
'Edith Cecillia'	7	26	2×1	20	2.5R 9/3	Nr
'Golden Royal Trumpet'	13	8	5×5	47	5Y 9/9	Tl
Golden Trumpets Strain	28	9	7×3	40	7.5Y 9/8-2.5YR 7/10	Nr
Golden Wedding Strain	19	25	3½×1	30	7.5Y 9/8	Nr
Green Knight Flares Strain	16	12	6×4½	46	2.5Y 8/12	Ts

July 12 (cont.)

Green Magic Strain	10	1	4½ × 4	40	white	T s
'Hearts Desire'	18	5	5 × 3½	31	white	T s
'Honeydew'	17	3	5 × 4½	20	10Y 9/8	T s
Inca Princess Strain	12	18	8 × 3	46	pale greenish yellow	H
'Lemon Royal Bowl'	19	6	5 × 4	38	7.5Y 8/12	H
'Life'	17	4	4½ × 4	34	5Y 8.5/12	T s
<i>L. longiflorum</i> (tetraploid)	13	2	4 × 6	14	white	T l
<i>L. regale</i>	22	5	5 × 6	48	white to pinkish	T l
<i>L. sargentiae</i> Hybrids	25	6	6 × 6	31	white to greenish	T l
'Luna'	21	9	5 × 5	48	10Y 9/6	T l
'Matawee'	10	5	6 × 5	46	pale yellow	H
Moonlight Strain	19	2	6 × 5	33	5Y 9/9	T l
Olympic Hybrids	12	2	5 × 5	30	white	T l
Pink Perfection Strain	16	6	3½ × 3½	33	pale pink, varies	T s
Pink Sunburst Strain	25	6	5 × 3½	36	white to pink	H
'Red Torch'	14	20	4½ × 1½	32	7.5R 5/13	H
Shelburne Pink						
Trumpets	17	8	4 × 4½	33	2.5RP 6/10	T s
'Shenandoah'	18	6	5 × 2½	38	pale yellow to deep orange	N r
'Stardust'	18	6	6 × 2	42	white	H
'Sunlight'	14	7	6 × 3½	34	5Y 8.5/12	H
'Thunderbolt'	19	7	8 × 5	42	5YR 7/11	N r
'Victory'	44	5	3½ × 1	18	2.5YR 6/13	H
'Warrior'	10	9	6 × 2½	27	2.5R 4/10	H
'Whiteface'	14	2	5 × 4½	31	white	T s
'Wildfire'	10	14	4½ × 4½	24	7.5R 4/11	H
'Yellow Regal'	19	3	4½ × 4	24	7.5Y 9/10	T s

July 19

'Autumn Glory Flares'	16	8	5 × 2	42	5YR 7/11	H
'Cupid'	9	1	4 × 4	19	white to pinkish	
'Golden Royal Corona'	22	8		33	5Y 9/9	H
'Greatheart'	11	4	4 × 3½	27	7.5YR 8/8	H
'Lady Alice'	18	6	6 × 2	40	white to yellowish	H
<i>L. canadense flavum</i>	10	6	4 × 2½	46	2.5Y 8/12	N r
<i>L. margaton cattaniae</i>	10	8	1½ × 1½	20	reddish black	N r
<i>L. tigrinum</i>	28	7	4 × 2½	36	10R 6/14	N r
'Lovely Lady'	7	1	5 × 4	17	white	H
'Mystic Virgin'	16	8	6 × 4	28	white to greenish	N p
Pink Glory Strain	23	7	6 × 1½	30	white to 2.5 RP 9/10	H
'Pioneer'	9	3	5 × 4	20	5Y 8.5/12	T s

July 19 (cont.)

Superba Strain	18	21	$5\frac{1}{2} \times 3$	46	creamy white	N
'Wahula'	28	12	6×6	36	2.5Y 9/9	H

July 26

'Canary'	18	4	$3\frac{1}{2} \times 1\frac{1}{2}$	34	5Y 8.5/12	
Centennial Hybrids	13	3	$9\frac{1}{2} \times 2\frac{1}{2}$	17	white	H
Barryi Hybrids	18	3	$7 \times -$	27	very pale yellow, varies	H
'Black Beauty'	22	5	$2 \times -$		2.5R 3/7	H
'Canary'	18	4	$3\frac{1}{2} \times 1\frac{1}{2}$	34	5Y 8.5/12	H
'Cherry Glow'	9	3	5×5	21	white to reddish	T I
'Eventide'	14	4	5×2		7.5YR 8/9 to white	H
Golden Showers Strain	15	2	$6 \times 2\frac{1}{2}$	30	5Y 8.5/12	
'Good Hope'	19	8	6×2	34	2.5Y 8/12	H
'Imperial Crimson'	26	13	$7\frac{1}{2} \times 3\frac{1}{2}$	42	white	H
<i>L. henryi citrinum</i>	19	22	4×2	72	5Y 8/12	H
'Mme. Edouard Debras'	21	13	6×4	36	7.5Y 9/8	H
'Mystic Star'	11	5		30	5R 5/13	H
'Reverie'	11	3	$5 \times -$	36	white to yellowish	
'Silvervine'	10	4	6×3	40	white	H

August 2

Centennial Hybrids	13	3	$9\frac{1}{2} \times 2\frac{1}{2}$	17	white	
Imperial Silver Strain	15	11	6×2	42	white	H
<i>L. formosanum wilsonii</i>	5	2	4×6	17	white	T I
<i>L. leichtlinii</i>	14	4	$2\frac{1}{2} \times 1$	40	10Y 9/9	H

August 9

Crimson Dream Strain	14	5	6×2	35	10RP 4/12 to white	H
Imperial Gold Strain	17	6	9×6	51	white to yellowish	H
'Jamboree'	26	5	5×2	38	7.5RP 5/12	H

August 16

'Ellabee'	17	6	4×2	48	white	H
<i>L. auratum platyphyllum</i>	17	4	5×4	36	white	T s

August 23

<i>L. speciosum album</i>	20	4	$6 \times 2\frac{1}{2}$	34	white	H
Superstar Strain	30	11	$3\frac{1}{2} \times 1\frac{3}{4}$	40	7.5RP 5/4 to white	H

August 30

<i>L. brownii australe</i>	11	2	4×6	60	white	T I
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DONALD WYMAN