

Common Name	Scientific Name	Group	Plant Type	Control/Experimental
Sweet pea	Lathyrus odoratus	A	Dicot	control
Sweet pea	Lathyrus odoratus	B	Dicot	control
Garlic	Allium tuberosum	A	monocot	control
Garlic	Allium tuberosum	B	monocot	control
Wheat	Triticum aestivum	A	monocot	control
Wheat	Triticum aestivum	B	monocot	control
Rye	Secale cereale	A	monocot	control
Rye	Secale cereale	B	monocot	control
Maize	Zea mays	A	monocot	control
Maize	Zea mays	B	monocot	control
Cabbage	Brassica oleracea var. capitata	A	dicot	control
Cabbage	Brassica oleracea var. capitata	B	dicot	control
Onion	Allium cepa	A	monocot	control
Onion	Allium cepa	B	monocot	control
Basil	Ocimum basilicum	A	Dicot	control
Basil	Ocimum basilicum	B	Dicot	control

Thale Cress	Arabidopsis thaliana	A	monocot	control
Thale Cress	Arabidopsis thaliana	B	monocot	control
Sage	salvia sommrrzisnsis	A	Dicot	control
Sage	salvia sommrrzisnsis	B	Dicot	control
Succulent	echeveria sedum	A	Dicot	control
Succulent	echeveria sedum	B	Dicot	control
Snapdragon	antirrhinum majus	A	Dicot	control
snapdragon	antirrhinum majus	B	Dicot	control
Honeyworts	Cerinthe major	A	Dicot	control
Honeyworts	Cerinthe major	B	Dicot	control
Kingfisher dasey	Felicia amelloides	A	Dicot	control
Kingfisher dasey	Felicia amelloides	B	Dicot	control
Petunia	Petunia integrifolia	A	Dicot	control
Petunia	Petunia integrifolia	B	Dicot	control
Tomato	Solanum lycopersicum	A	Dicot	control
Tomato	Solanum lycopersicum	B	Dicot	control
Common Sunflower	Helianthus annuus	A	Dicot	control
Common Sunflower	Helianthus annuus	B	Dicot	control
Bearded Iris	Iris × germanica	A	monocot	control
Bearded Iris	Iris × germanica	B	monocot	control
Daffodil	Narcissus pseudonarcissus	A	monocot	control
Daffodil	Narcissus pseudonarcissus	B	monocot	control
purple Loosestrife	Lythrum salicaria	A	dicot	control
Purple Loosestrife	Lythrum salicaria	B	dicot	control

Sweet pea	Lathyrus odoratus	A	Dicot	Experimental
Sweet pea	Lathyrus odoratus	B	Dicot	Experimental
Garlic	Allium tuberosum	A	monocot	Experimental
Garlic	Allium tuberosum	B	monocot	Experimental
Wheat	Triticum aestivum	A	monocot	Experimental
Wheat	Triticum aestivum	B	monocot	Experimental
Rye	Secale cereale	A	monocot	Experimental
Rye	Secale cereale	B	monocot	Experimental
Maize	Zea mays	A	monocot	Experimental
Maize	Zea mays	B	monocot	Experimental
Cabbage	Brassica oleracea var. capitata	A	dicot	Experimental
Cabbage	Brassica oleracea var. capitata	B	dicot	Experimental
Onion	Allium cepa	A	monocot	Experimental
Onion	Allium cepa	B	monocot	Experimental
Basil	Ocimum basilicum	A	Dicot	Experimental
Basil	Ocimum basilicum	B	Dicot	Experimental
Thale Cress	Arabidopsis thaliana	A	monocot	Experimental
Thale Cress	Arabidopsis thaliana	B	monocot	Experimental
Sage	salvia sommrrzsis	A	Dicot	Experimental
Sage	salvia sommrrzsis	B	Dicot	Experimental
Succulent	echeveria sedum	A	Dicot	Experimental
Succulent	echeveria sedum	B	Dicot	Experimental
Snapdragon	antirrhinum majus	A	Dicot	Experimental
snapdragon	antirrhinum majus	B	Dicot	Experimental
Honeyworts	Cerinthe major	A	Dicot	Experimental
Honeyworts	Cerinthe major	B	Dicot	Experimental
Kingfisher dasey	Felicia amelloides	A	Dicot	Experimental
Kingfisher dasey	Felicia amelloides	B	Dicot	Experimental
Petunia	Petunia integrifolia	A	Dicot	Experimental
Petunia	Petunia integrifolia	B	Dicot	Experimental
Tomato	Solanum lycopersicum	A	Dicot	Experimental
Tomato	Solanum lycopersicum	B	Dicot	Experimental
common Sunflower	Helianthus annuus	A	Dicot	Experimental
common Sunflower	Helianthus annuus	B	Dicot	Experimental
bearded Iris	Iris × germanica	A	monocot	Experimental
bearded Iris	Iris × germanica	B	monocot	Experimental
Daffodil	Narcissus pseudonarcissus	A	monocot	Experimental
Daffodil	Narcissus pseudonarcissus	B	monocot	Experimental
Purple Loosestrife	Lythrum salicaria	A	dicot	Experimental
Purple Loosestrife	Lythrum salicaria	B	dicot	Experimental

number of roots over all	number of sprouts over all	Change in week 1 (sprout)	change in week 2 (sprout)
--------------------------	----------------------------	---------------------------	---------------------------

4			
1			
2	1		2
6	2	1.2	1.8
17	4	0.8	1.2
7	2		1
9	1	1.2	2.5
8	2		1
7	3		1.8
4	2		0.65
3	3		0.93
4	4	1.2	0.8
5	4		1.67
2	1	0.8	1.5
3	3		1.4

2	20		0.5
6	25		0.2

2			
5	2	0.55	2.4

7	3		1.7
9	3	0.13	1.7

4	1	0.7	1.2
1			
2	1	1.5	2

4	3		1.5
3	2		1.8
2	1		1.3

1			
2	1		1.5
1			
1	2	0.4	1.3
6	1	1.5	2
4	2	1.1	3.6
2	2	1.2	1.5
3	2		0.8
2	2		1.6
3	2		0.7
2	1	0.5	0.7
3	1	0.7	1
1			
4	2	1	2.4
2	1	0.3	0.5
2	3		0.5
7	27		0.3
5	22		
2			
5	3		2.4
1	1		0.2
6	3		0.4
4	1	0.5	1
2			
3	2		1.1
1	1	1	1.5
1			
2	3	0.9	1.4
1	1	0.5	1
1			

change in week 3 (sprout)	change in week 4 (sprout)	seed amount	seed amount variation ±
		4	
		4	
		5	
2.5	1.8	5	
1.5	1.85	4	
2.62	2.5	3	
3.5	1.5	4	
1.8	3.8	4	
2.85	3	3	
1.7	2.4	3	
2.8	1.5	6	
1.8	2.7	6	
1.27	2.5	5	
2	2.5	5	
2.1	3	6	
1	2.4	6	
0.41	0.2	30	5
0.5	0.28	30	5
		6	
		6	
		6	
3	1.1	6	
		10	3
		10	3
		4	
		4	
		5	
		5	
1.8	1.23	5	
1.3	2	5	
		5	
1.4	2.8	5	
		3	
3.2	2.2	3	
		5	
		5	
2.1	1.9	5	
1.9	1.4	5	
1.8	3.7	5	
		5	

		4	
1.7	2	4	
		5	
2.8	1.2	5	
2.5	1.5	4	
1.3	2.7	3	
1.5	1.8	4	
3.2	2.3	4	
1.9	1.1	3	
1.5	1.9	3	
0.8	1.2	6	
1.2	2.2	6	
		5	
2.2	2.6	5	
1.2	0.8	6	
0.3	0.7	6	
0.7	0.2	30	5
0.6	0.5	30	5
		6	
		6	
		6	
1.4	1.6	6	
0.8	1.1	10	3
		10	3
		4	
		4	
		5	
		5	
2	2	5	
1.2	2	5	
		5	
3	2.4	5	
2.5	2.9	3	
		3	
		5	
		5	
1.5	1.6	5	
2	2.5	5	
		5	
		5	

Change in week 1 (root) change in week 2 (root) change in week 3 (root) change in week 4 (root)

0.5	1	1.5	1.6
	1.5	2	1.2
	1.3	2.3	1.4
0.7	1.2	1.3	1.7
0.4	1	1.1	2.1
0.8	1.4	2.2	1
1	1.3	2.1	1.1
	1.2	1.9	2.12
	1.4	1.5	1.5
	0.45	1.2	2
	1.4	2.1	2.3
0.4	1.3	1.6	1.4
0.5	1.1	2.3	1.2
	1.6	1.4	1.05
	1.3	1.7	2

0.25	2.2	2.7
0.55	2.1	2.5

0.6	0.9	1.1
0.32	1.2	1.8

0.08	0.37	1.5	2.7
	0.2	1.2	2.3

1.3	3	1.9
1	2.5	2.2
0.8	1.3	2.4

0.57	1.8	2.7
0.26	1.2	2.1
1.5	4.1	2.4

	0.6	2.1	2.4
	1.1	3.2	1.8
	1.2	3.2	2.3
	1.1	3.5	2.8
0.5	1	1.1	1.1
0.6	1	1.5	2
0.8	1.5	1.65	2
1	1.5	2	1.7
0.5	1	2	1.85
	1.5	1	3.5
	1	1.8	2.6
	0.6	1.4	2.9
	0.2	0.8	1.2
0.05	0.4	1.4	1.6
	0.15	1.3	2.2
	0.6	1	2.2
0.08	0.1	1.4	2.4
	0.4	1.1	2.6
	0.4	2.6	3.5
	0.48	2.2	2.9
0.6	1.4	2.1	3.3
	0.4	1.2	2
	0.22	1.4	2.2
	0.9	2.4	2.6
	1.2	1.8	2.4
0.4	0.9	2.3	3.2
1.6	1.4	3.7	2.3
	0.15	1	1.5
	0.7	1.1	3
0.4	1.3	4.9	2

Individual lengths (roots)

3.5, 7.2, 1.8, 5.9

4.7

3.9, 6.1

5.6, 5.8, 4.7, 7.3, 4.2, 2.1

2.3, 5.6, 1, 8.9, 4.2, 7.7, 0.5

2.3, 6.8, 4.5, 1.9, 8.1, 3.7, 9.

2.6, 5.4, 8.1, 1.7, 4.9, 7.2, 3.4

1.8, 4.3, 7.9, 3.6, 6.1, 9.2, 2

3.2, 7.5, 1.6, 9.8, 5.1, 2.4, 8.7

2.5, 4.1, 7.2, 0.8

8.1, 6.5, 3.2

2.7, 5.4, 3.6, 7.1

3.2, 4.8, 6.3, 8.7, 2.5

2.4, 5.7

3.9, 6.2, 4.9

5.8, 4.7

5.1, 4.6, 1.8, 5.5, 7.2, 6.7

1.3, 3.9

1.7, 4.3, 6.8, 3.2, 0.6

6.2, 5.6, 7.3, 1.4, 4.8, 6.4, 0

1.2, 3.5, 6.8, 2.3, 4.6, 5.7, 0

3.5, 4.2, 7.8, 9.3

5.7

3.9, 5.1

5.2, 5.9, 7.4, 1.8

1.7, 4.3, 6.7

6.4, 9.6

2.8, 4.4

5.1

6.7

7.4

5.1,2.6,4.4,2.3,1.7,5.8

6.2, 4.1, 5.3, 5

4.7,7.2

6.3,2.8,9.5

5.2,5.5

5.8,6.2

4.2, 6.6

3.5, 6.1, 5.3

2.2

1.8, 4.6, 7.3, 0.9

2.4, 7.1

5.7, 1.9

1.2, 3.5, 5.8, 1.7, 4.8, 7.9, 2

1.5, 3.8, 6.2, 5.8, 3.2

7.1, 5.8

2.3, 4.6, 6.9, 8.2, 5.9

7.4

1.2, 4.3, 5.6, 7.8, 0.4, 2.3

1.7, 4.2, 7.5, 1.9

5.8, 6.4

2.6, 5.4, 8.3

7.3

9

4.7, 0.6

5.3

8.6

Indavidual length (sprouts)

6.3

6.2, 6.5

8, 5.7, 8.2, 6.6

4.2, 7.8

9.3

6.2, 7.5

5.3, 5.9, 6.5

3.2, 6.7

2.6, 5.4, 8.3

1.8, 4.5, 7.2, 9.6

2.3, 5.1, 7.9, 9.4

7.4

1.7, 4.2, 8.5

1.63, 1.14, 0.92, 0.27, 1.88, 0.46, 1.72, 0.81, 0.35, 0.59, 1.95, 1.28, 1.07, 1.41, 0.75, 1.99, 0.13, 1.55, 0.64, 1.83

1.47, 0.82, 0.25, 1.36, 0.54, 0.94, 1.82, 0.67, 0.11, 1.73, 0.37, 1.25, 0.76, 1.64, 1.05, 0.41, 0.29, 1.93, 1.11, 0.49,

5.8, 7.3

4.7, 1.2, 8.3

5.9, 2.4, 7.1

6.1

8.9

3.8, 6.5, 9.2

4.3, 7.9

6.8

5.2

4.8, 6.7

8.5

8.2, 9.3

7.7, 5.4

5.9, 6.8

4.3, 4.9

3.7, 4.5

3.2

5.1

7.2, 9.3

2.8

2.3, 1.6, 0.8

2, 0.8, 1.4, 1.9, 0.2, 1.7, 0.6, 2.1, 1.1, 0.5, 2.3, 0.9, 1.6, 0.3, 1.1, 2.2, 0.7, 1.8, 0.4, 1.5, 0.9, 2.4, 1.3, 0.5, 2, 1.2, 0.7
0.8, 1.4, 0.3, 2.1, 1, 0.6, 2.2, 0.4, 1.1, 0.9, 1.7, 0.2, 1.9, 0.5, 2.3, 1.2, 0.1, 1.8, 0.7, 2, 1.4, 0.8

5.2, 1.8, 9.4

1.3

3.7, 7.1, 2.4

4.7

4.8, 8.3

7.9

6.2, 1.5, 8.7

5.7

average root length

average sprout length

4.6
4.7
5
4.9 6.35
4.6
5.42
5.5
5.12
5.47
3.65
5.9
4.7
5.1
4.05
5

5.15
5.15

2.6
3.32

4.57
3.78

6.2
5.7
4.5

5.07
3.56
8

5.1
6.1
6.7
7.4

5.1

5.4
4.9
2.2
3.65
4.75
3.8
3.88
4.1

6.45
5.58
7.4

3.6
3.82
6.1
5.4
7.3
9

2.65
5.3

8.6