



[www.onrockgarden.com](http://www.onrockgarden.com)

# Seedex

2022 - 2023

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## **ORG&HPS Seed Exchange 2022 – 2023**

### **NEW !!!!**

Deadline for on-line orders is midnight December 27th.

Mail-in orders must be stamped no later than December 21.

It is not possible to accommodate late orders.

We have eliminated descriptions. From the on-line Seedex, click on **P** to see pictures or **T** to find growing information.

### **THANKS FOR YOUR CONTRIBUTIONS!**

WOW! We have done it again! The ORG&HPS seed exchange has had another excellent year with over 1100 packets of seeds donated by 53 members. This is a little fewer than last year's donations. Every year we see the variety of seeds improve! We are missing some previous donors, so hopefully we will get those past donors back and they will donate again in the future. We are very excited to see new donors and even newer members donate.

We thank the following generous donors who collected, cleaned, packaged, listed, and sent their seeds: Sherill A, Beatrice B, Iryna B, Mandy B, Annie B, Veronica C, Andrew C, Bernard C, Alain C, Carol C, Hazel C, Barbara C and Bella S (COSE), Gabriela C, Susan and Michael D, Carol E, P J G, Robert G, Ross G, Ruth H, Jan H, Virginia H, Pearl H, Frances H, Bonnie K, David L, Anna L, Sterling L, Marilyn L, Craig M, Jim M, Sharon M, Anna M, Trish M, Karen P, Jon P, Dianne P, Joy R, Veronica R, Anne S, Rita S, Lois S, William S, Glen S, Robert S, Mionne T, Arie V, Srinivasa V, Linda V, Daniel W, Robert W, Murray W, Pamela W and Lucille Y. On the list, these donors' names are shortened to the first four characters except where noted.

Our donor 'Top 10' list is as follows. Hazel C (101) Sherill A (72), Mionne T (69) Sharon M (65), Rita S (58), Carol C (51), Bernard C (47), Gabriela C (41), Anne S (37), Annie B (34), special thanks to early donors and especially to those who provided their lists by e-mail.

Thanks to Gabriela C and Carol C for their part in doing all the proofreading.

**To members: This is a public document on the web so names have been partially redacted.**

**Please see instead the Seedex document that was emailed to you or the printed copy you received via postal service.**

Non-members can join at: <https://onrockgarden.com/membership/join>

## FILLING AND DISTRIBUTING ORDERS

Orders are filled on a “first-come, first-served” basis with donors’ orders filled before non-donors’. Due to Covid 19 we are packaging with some individual members as we did last year. By the end of December, after ordering is completed, the volunteers will be collecting the seeds from 2 central locations and packaging at home rather than groups to maintain social distancing. A week later, they will return the completed packaging to the 2 central locations. What happens after that with order pulling has not been decided and will depend on the situation at that time. Seed distribution might not happen until mid-to-late January. Please bear with us in this difficult time.

## ORDERING FROM THE SEEDEX

We try to list seeds under the current name, correctly spelled. Parent plants are listed but their offspring may differ so be prepared for delightful surprises. All wild collected listings are identified by a <sup>w</sup> after the species name. Generally, colours are abbreviated to the first three or four letters. The height of each plant is given in cm but the numbers are often rounded off. The first two letters of the plant type are used as follows. AN: annual, BI: biennial, PE: perennial, BU: bulb, SH: shrub, TR: tree, VI: vine.

The cost is \$15.00 for each order which can include up to 60 packages of seed. Other people in a household who have been identified as ORG&HPS members may each place one additional order. These orders also cost \$15 each. No duplicates or ranges of numbers.

### ONLINE:

You can submit your Seedex order online, and make payment by credit card or e-transfer (the “offline” option). Full instructions can be found [here](#) .

E-transfers should be sent to [treasurer@onrockgarden.com](mailto:treasurer@onrockgarden.com) . No password is required.

### BY MAIL, INCLUDING ALL ORDERS PAID BY CHEQUE:

If you prefer to pay by cheque, it must be accompanied by a completed order form and mailed to Annie B. Cheques should be made payable to “ORG&HPS”. Use the order form included in this newsletter or download one from the website.

**We do not accept orders by email.**

## ORDERS FOR U.S.A.

Residents of the USA should order only seeds approved for entry into the USA. Those plants which are restricted have the symbol [X] in the germination code. If you order any of these, we can not send them. A Small Lots of Seed Permit is required and must be sent in with your order, along with the Conditions, an itemized list of the seed names, your own mailing label and the yellow and green mailing label. If you have recently applied for the permit, and expect it soon you can send it later on. You are only allowed 50 packets of seed, but if you fill in all 60 spaces, we'll stop when we get to 50 if you were lucky enough to get all your wishes!

## ORDERS FOR COUNTRIES OTHER THAN CANADA AND U.S.A.

Check your country’s regulations and do not place an order if a phytosanitary certificate is required for importing seeds. We are unable to provide the certificate.

Thank you for making this a pleasurable and educational experience.  
On behalf of the Seedex Committee,  
Arie V.

## Germination Codes

### SYMBOLS

- \* This species needs special care which can be found [here](#) .
- ? We have no information on this species. We sometimes provide an informed guess about which approach you should try..
- ! Sow immediately. Either the viability of these seeds is short or the species propagates best with fresh seed. Stored seed might be coaxed into germination with temperature cycling and patience.
- [X] This seed is restricted and cannot be imported to the United States.
- [i] This plant is considered invasive in Ontario. Propagate with caution.

### LETTERS

- A Sow @ 20°C. Seed germinates within 3 months.
- B Sow @ 20°C. If seed does not germinate within 3 months, try 4°C for 1-2 months, then 20°C again.
- C Sow @ 20°C for 3 months, then place @ 4°C for 3 months.
- D Use repeated cycles of 20°C, then 4°C for 3 months each. Germination is very prolonged.
- E Sow @ 20°C for 6 weeks, then place @ 4°C for 6 weeks, then slowly raise temperature to 10°C for 6 weeks. If there is no germination, repeat the cycle.
- F Sow @ 4°C.
- G Sow @ 4°C for 3 months, then place @ 20°C for 3 months.
- H Use repeated cycles of 4°C, then 20°C for 3 months each. Germination is very prolonged.
- J Sow @ 4°C for 3 weeks, then place @ 20°C.
- K Sow @ 10°C.
- L Expose to fluctuating outdoor winter temperatures including freezing for 3 months. Gradually increase light and temperature in spring.
- I Sow directly in garden.

### NUMBERS

- 1 Resents transplanting.
- 2 Requires darkness.
- 3 Requires light or the seed is very fine. Surface sow and expose to light.
- 4 Germination is improved by using GA3.
- 5 Germination is successful only when GA3 is used.
- 6 Requires scarification. Nick or rub between sheets of sandpaper.
- 7 Requires soaking. Place in warm water until seeds swell, usually 24-48 hours. Discard water and any seeds that remain floating.
- 8 Pulpy coat inhibits germination. Remove by soaking and rinsing in clean water for approximately 7 days. Discard water.
- 9 At one time, we advised "Tails may inhibit germination. Remove them." Our most recent data indicates that leaving the tails on has no effect on germination.

### WHAT OUR TEMPERATURE DESIGNATIONS MEAN

- 4°C Either place seeds outdoors to be exposed to a wide range of winter temperatures including freezing or put them in a refrigerator (not a deep freezer).
- 10°C Either place seeds outdoors in spring or fall or choose a very cool indoor location.
- 20°C Either place seeds in a sheltered outdoor location in mid to late spring or grow at room temperature.

# ORG&HPS 2022 - 2023 SEED EXCHANGE MAIL-IN ORDER FORM

**Mail-in orders must be postmarked no later than December 21st  
or visit our website and enter your order by midnight December 27th**

This is an exchange of seeds between members; neither authenticity nor viability of listings can be verified.

Lowest number to ▶▶▶▶

▶▶▶▶ Highest number

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Please send your mail-in order to:

This is a public document on the web so this private address has been redacted.  
Please see the Seedex document that was emailed to you or the printed copy you received via postal service.  
Non-members can join at:

<https://onrockgarden.com/membership/join>

No Fax or e-mail orders

Please, do not send membership renewals to Annie

I have enclosed \$15.00.

**All seed orders must be mailed to members this year—pick-up isn't an option because the January meeting will be online via Zoom rather than in-person.**

Your full mailing address, including postal code:

Name:

Address:

We appreciate your comments and suggestions:

# ORG&HPS Seed Exchange 2022 - 2023

|    | Genus      | Species or Hybrid            | P  | T | Col-1 | Col-2 | TP | Ht   | Donor | G.Codes |
|----|------------|------------------------------|----|---|-------|-------|----|------|-------|---------|
| 1  | Acaena     | microphylla                  | PT |   | gree  |       | PE | 5    | GREE  | E       |
| 2  | Acaena     | myriophylla                  | PT |   | beig  | gree  | PE | 8    | MIDD  | A       |
| 3  | Acer       | pictum subsp. Mono           | PT |   | yell  |       | TR | 3000 | GLEN  | ! G 7   |
| 4  | Acinos     | alpinus                      | PT |   | purp  |       | PE | 15   | ALLA  | A 3     |
| 5  | Acmella    | oleracea                     | PT |   | yell  | red   | PE | 30   | SHAW  | A       |
| 6  | Aconitum   | barbatum                     | PT |   | yell  |       | PE | 80   | CARR  | !*      |
| 7  | Aconitum   | hemsleyanum                  | PT |   | crea  | blue  | VI | 200  | LEGG  | !*      |
| 8  | Aconitum   | japonicum                    | PT |   | blue  |       | PE | 150  | CARR  | !*      |
| 9  | Aconitum   | lycoctonum                   | PT |   | whit  |       | PE | 80   | MIDD  | !*      |
| 10 | Aconitum   | lycoctonum subsp. lycoctonum | PT |   | yell  |       | PE | 50   | VANS  | !*      |
| 11 | Aconitum   | moldavicum                   | PT |   | purp  |       | PE | 100  | CARR  | ! L *   |
| 12 | Actaea     | pachypoda                    | PT |   | whit  |       | PE | 45   | SAVA  | ! H 8 * |
| 13 | Actaea     | racemosa                     | PT |   | whit  |       | PE | 150  | LEGG  | ! C     |
| 14 | Actaea     | racemosa                     | PT |   | whit  |       | PE | 200  | TAYL  | ! C     |
| 15 | Actaea     | rubra <sup>w</sup>           | PT |   | whit  |       | PE | 45   | SAVA  | ! H 8 * |
| 16 | Actaea     | rubra                        | PT |   | whit  |       | PE | 45   | SAVA  | ! H 8 * |
| 17 | Actaea     | simplex 'Variegata'          | PT |   | whit  |       | PE | 150  | CARR  | ! E     |
| 18 | Actaea     | simplex                      | PT |   | whit  |       | PE | 150  | MIDD  | ! E     |
| 19 | Aethionema | armenum                      | PT |   | pink  | whit  | PE | 15   | TAYL  | A       |
| 20 | Aethionema | armenum                      | PT |   | pink  |       | PE | 10   | MERR  | A       |
| 21 | Aethionema | grandiflorum                 | PT |   | pink  |       | PE | 15   | MIDD  | A       |
| 22 | Agapanthus | 'Dazzler'                    | PT |   | whit  | blue  | PE | 100  | LEGG  | A *     |
| 23 | Agapanthus | sp.                          | PT |   | blue  |       | PE | 125  | LEGG  | A *     |
| 24 | Agapanthus | sp.                          | PT |   | whit  | blue  | PE | 125  | LEGG  | A *     |
| 25 | Agapanthus | sp.                          | PT |   | whit  |       | PE | 125  | LEGG  | A *     |
| 26 | Agastache  | foeniculum                   | PT |   | lila  |       | PE | 30   | SAVA  | A 3     |
| 27 | Agastache  | rugosa (yellow leaf)         | PT |   | purp  |       | PE | 20   | MERR  | K       |
| 28 | Agrostemma | githago                      | PT |   | pink  |       | AN | 40   | BREL  | K N     |
| 29 | Albuca     | shawii                       | PT |   | yell  |       | BU | 15   | PETT  | A 3     |
| 30 | Alcea      | rosea 'Halo Cerise'          | PT |   | red   |       | AN | 60   | TAYL  | A       |
| 31 | Alcea      | rugosa                       | PT |   | yell  |       | BI | 150  | COOK  | A       |
| 32 | Alisma     | triviale                     | PT |   | whit  |       | PE | 100  | MURP  | ! B *   |
| 33 | Allium     | carinatum subsp. pulchellum  | PT |   | pink  |       | BU | 40   | STUA  | F       |
| 34 | Allium     | cernuum                      | PT |   | blue  |       | BU | 30   | SAVA  | A       |
| 35 | Allium     | cernuum                      | PT |   | mix   |       | BU | 30   | SHAW  | A       |
| 36 | Allium     | cernuum                      | PT |   | pink  |       | BU | 40   | BREL  | A       |
| 37 | Allium     | cernuum                      | PT |   | pink  |       | PE | 50   | GREE  | A       |
| 38 | Allium     | cernuum                      | PT |   | pink  |       | PE | 25   | RICH  | A       |
| 39 | Allium     | cernuum                      | PT |   | pink  |       | PE | 25   | SPUR  | A       |
| 40 | Allium     | cristophii                   | PT |   | lave  |       | BU | 50   | VANS  | J       |
| 41 | Allium     | cristophii                   | PT |   | purp  |       | BU | 30   | BREL  | J       |
| 42 | Allium     | cristophii                   | PT |   | purp  |       | BU | 45   | LEGG  | J       |
| 43 | Allium     | cristophii                   | PT |   | purp  |       | BU | 45   | SHAW  | J       |
| 44 | Allium     | cristophii                   | PT |   | whit  |       | BU | 60   | STUA  | J       |
| 45 | Allium     | karataviense 'Ivory Queen'   | PT |   | whit  |       | BU | 10   | TAYL  | ! H     |
| 46 | Allium     | karataviense 'Red Giant'     | PT |   | red   |       | BU | 20   | GREE  | ! H     |
| 47 | Allium     | 'Millenium'                  | PT |   | purp  |       | PE | 50   | COOK  | L       |
| 48 | Allium     | 'Millenium'                  | PT |   | purp  |       | PE | 40   | VANS  | L       |
| 49 | Allium     | neapolitanum                 | PT |   | whit  |       | BU | 50   | SAVA  | ! J     |
| 50 | Allium     | obliquum                     | PT |   | crea  |       | BU | 120  | SAVA  | A       |
| 51 | Allium     | obliquum                     | PT |   | yell  |       | BU | 60   | BREL  | A       |
| 52 | Allium     | oreophilum                   | PT |   | pink  |       | PE | 10   | BOTI  | J       |
| 53 | Allium     | rotundum                     | PT |   | purp  |       | PE | 25   | WALK  | A       |
| 54 | Allium     | schoenoprasum                | PT |   | lave  |       | BU | 15   | TAYL  | [X] A   |
| 55 | Allium     | schubertii                   | PT |   | lave  |       | BU | 50   | BONY  | A       |
| 56 | Allium     | senescens                    | PT |   | blue  |       | PE | 30   | SAVA  | G       |
| 57 | Allium     | senescens 'Blue Eddy'        | PT |   | lila  |       | BU | 20   | TAYL  | G       |
| 58 | Allium     | senescens x nutans           | PT |   | pink  |       | PE | 50   | BREL  | A       |
| 59 | Allium     | siculum                      | PT |   | burg  | whit  | BU | 75   | TAYL  | B       |
| 60 | Allium     | sikkimense                   | PT |   | blue  |       | BU | 25   | SAVA  | A       |
| 61 | Allium     | sp.                          | PT |   | pink  |       | BU | 40   | ALLA  | [X] J   |
| 62 | Allium     | sphaerocephalon              | PT |   | burg  |       | BU | 75   | STUA  | G       |
| 63 | Allium     | tricoccum                    | PT |   | whit  |       | PE | 30   | COOK  | ! E     |
| 64 | Allium     | tripedale                    | PT |   | pink  | whit  | BU | 80   | GREE  | J       |
| 65 | Allium     | tuberosum                    | PT |   | whit  |       | PE | 60   | COOK  | A       |
| 66 | Allium     | tuberosum                    | PT |   | whit  |       | BU | 30   | LEGG  | A       |

# ORG&HPS Seed Exchange 2022 - 2023

| Genus | Species or Hybrid                        | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes |
|-------|--|-----|-------|-------|----|-----|-------|---------|
| 67    | Allium vineale                           | PT  | lave  |       | BU | 50  | BONY  | G       |
| 68    | Althaea officinalis                      | PT  | pink  |       | PE | 170 | MIZY  | A       |
| 69    | Alyssoides utriculata                    | PT  | yell  |       | PE | 20  | VANS  | B       |
| 70    | Alyssum caespitosum                      | PT  | yell  |       | PE | 10  | SMIT  | A 3     |
| 71    | Alyssum wulfenianum                      | PT  | yell  |       | PE | 10  | CLAR  | A       |
| 72    | Ampelopsis brevipedunculata 'Variegata'  | PT  | whit  |       | VI | 200 | COOK  | G 8     |
| 73    | Amsonia hubrichtii                       | PT  | blue  |       | PE | 90  | TAYL  | J       |
| 74    | Amsonia illustris                        | PT  | blue  | whit  | PE | 70  | COST  | F       |
| 75    | Amsonia illustris                        | PT  | blue  |       | PE | 120 | DOLB  | F       |
| 76    | Amsonia tabernaemontana                  | PT  | blue  |       | PE | 90  | LEVY  | G       |
| 77    | Amsonia tabernaemontana                  | PT  | blue  |       | PE | 60  | PETT  | G       |
| 78    | Amsonia tabernaemontana                  | PT  | blue  |       | PE | 90  | STUA  | G       |
| 79    | Amsonia tabernaemontana var. salicifolia | PT  | blue  |       | PE | 75  | LEGG  | G       |
| 80    | Anchusa azurea 'Dropmore'                | PT  | blue  |       | PE | 45  | HARV  | A       |
| 81    | Anchusa officinalis                      | PT  | blue  |       | PE | 25  | MERR  | A 2     |
| 82    | Andropogon gerardii                      | PT  | gree  |       | PE | 200 | COOK  | A       |
| 83    | Andropogon ternarius                     | PT  | whit  |       | PE | 90  | GREE  | A       |
| 84    | Androsace adfinis subsp. brigitanica     | PT  | whit  |       | PE | 5   | CLAR  | E 3     |
| 85    | Androsace adfinis subsp. brigitanica     | PT  | whit  |       | PE | 10  | WELS  | E 3     |
| 86    | Androsace mairei                         | PT  | whit  | yell  | PE | 10  | TAYL  | E 3     |
| 87    | Androsace sempervivoides                 | PT  | pink  | yell  | PE | 8   | TAYL  | A 3     |
| 88    | Anemone drummondii                       | PT  | whit  |       | PE | 20  | MIDD  | ! A     |
| 89    | Anemone multifida                        | PT  | rose  |       | PE | 15  | CLAR  | ! A     |
| 90    | Anemone multifida 'Rubra'                | PT  | red   |       | PE | 20  | MIDD  | ! A     |
| 91    | Anemone narcissiflora subsp. biarmiensis | PT  | whit  |       | PE | 15  | CLAR  | ! A     |
| 92    | Anemone narcissiflora subsp. biarmiensis | PT  | whit  |       | PE | 25  | MIDD  | ! A     |
| 93    | Anemone parviflora                       | PT  | whit  |       | PE | 10  | WALK  | ! A     |
| 94    | Anemone sp.                              | PT  | yell  |       | PE | 45  | ALLA  | ! A     |
| 95    | Anemone sylvestris                       | PT  | whit  |       | PE | 40  | COOK  | ! A     |
| 96    | Anemonoides baldensis                    | PT  | whit  |       | PE | 12  | CLAR  | ! A     |
| 97    | Anemonoides baldensis                    | PT  | whit  |       | PE | 20  | MIDD  | ! A     |
| 98    | Anemonopsis macrophylla                  | PT  | whit  | mauv  | PE | 60  | MERR  | ! A *   |
| 99    | Anemonopsis macrophylla                  | PT  | whit  | purp  | PE | 60  | PETE  | ! A *   |
| 100   | Anethum graveolens                       | PT  | whit  |       | AN | 60  | BEAU  | [X] A N |
| 101   | Anethum graveolens                       | PT  | yell  |       | AN | 70  | BREL  | [X] A N |
| 102   | Anethum graveolens                       | PT  | yell  |       | AN | 30  | PETT  | [X] A N |
| 103   | Angelica sinensis                        | PT  | whit  |       | PE | 150 | CARR  | ! A 3   |
| 104   | Antennaria dioica                        | PT  | whit  |       | PE | 7   | ALLA  | A       |
| 105   | Antennaria dioica 'Rubra'                | PT  | pink  |       | PE | 4   | HILD  | F       |
| 106   | Anthericum liliago                       | PT  | whit  |       | PE | 24  | HOWE  | A       |
| 107   | Anthericum ramosum                       | PT  | whit  |       | PE | 45  | COST  | J       |
| 108   | Anthericum ramosum                       | PT  | whit  |       | PE | 6   | HILD  | J       |
| 109   | Anthericum ramosum                       | PT  | whit  |       | PE | 60  | MERR  | J       |
| 110   | Anthriscus cerefolium                    | PT  | whit  |       | AN | 40  | BEAU  | A 1 3   |
| 111   | Anthyllis coccinea                       | PT  | red   | whit  | PE | 20  | SAVA  | B 3 7   |
| 112   | Anthyllis coccinea                       | PT  | red   |       | PE | 20  | VARA  | B 3 7   |
| 113   | Anthyllis coccinea                       | PT  | yell  | red   | PE | 5   | WALK  | B 3 7   |
| 114   | Antirrhinum sp.                          | PT  | pink  |       | AN | 10  | PETT  | A       |
| 115   | Aquilegia atrata                         | PT  | red   |       | PE | 12  | MIDD  | E       |
| 116   | Aquilegia canadensis                     | PT  | red   | yell  | PE | 90  | COOK  | J       |
| 117   | Aquilegia canadensis <sup>w</sup>        | PT  | red   | yell  | PE | 45  | COST  | J       |
| 118   | Aquilegia canadensis                     | PT  | red   | yell  | PE | 50  | TAYL  | J       |
| 119   | Aquilegia canadensis 'Little Lanterns'   | PT  | red   | yell  | PE | 30  | LEGG  | J       |
| 120   | Aquilegia canadensis 'Little Lanterns'   | PT  | red   | yell  | PE | 30  | VANS  | J       |
| 121   | Aquilegia canadensis 'Little Lanterns'   | PT  | yell  | pink  | PE | 8   | HILD  | J       |
| 122   | Aquilegia flabellata                     | PT  | blue  |       | PE | 20  | ALLA  | A 4     |
| 123   | Aquilegia flabellata                     | PT  | pink  |       | PE | 20  | ALLA  | A 4     |
| 124   | Aquilegia flabellata                     | PT  | whit  |       | PE | 15  | CLAR  | A 4     |
| 125   | Aquilegia flabellata 'Alba'              | PT  | whit  |       | PE | 30  | COST  | A 4     |
| 126   | Aquilegia flabellata 'Alba'              | PT  | whit  |       | PE | 30  | RICH  | A 4     |
| 127   | Aquilegia flabellata var. nana           | PT  | blue  | whit  | PE | 15  | LEGG  | A 4     |
| 128   | Aquilegia flabellata var. pumila         | PT  | blue  | whit  | PE | 10  | TAYL  | A 4     |
| 129   | Aquilegia glandulosa                     | PT  | blue  | whit  | PE | 15  | MERR  | A       |
| 130   | Aquilegia micrantha var. grahamii        | PT  | red   | yell  | PE | 25  | MIDD  | A       |
| 131   | Aquilegia pyrenaica                      | PT  | blue  | whit  | PE | 25  | ALLA  | A       |
| 132   | Aquilegia pyrenaica                      | PT  | purp  |       | PE | 20  | COSE  | A       |



# ORG&HPS Seed Exchange 2022 - 2023

| Genus | Species or Hybrid | P T | Col-1                                 | Col-2 | Tp   | Ht   | Donor | G.Codes   |         |
|-------|-------------------|-----|---------------------------------------|-------|------|------|-------|-----------|---------|
| 133   | Aquilegia         |     | pyrenaica subsp. discolor             | PT    | blue | whit | PE    | 20 TAYL   | D 4     |
| 134   | Aquilegia         |     | saximontana                           | PT    | blue |      | PE    | 15 CLAR   | G 4     |
| 135   | Aquilegia         |     | saximontana                           | PT    | blue |      | PE    | 10 SAVA   | G 4     |
| 136   | Aquilegia         |     | scopulorum                            | PT    | yell |      | PE    | 6 HILD    | G 4     |
| 137   | Aquilegia         |     | sp.                                   | PT    | blue | whit | PE    | 20 VANS   | A       |
| 138   | Aquilegia         |     | sp.                                   | PT    | burg |      | PE    | 40 SHAW   | A       |
| 139   | Aquilegia         |     | sp.                                   | PT    | pink |      | PE    | 25 ALLA   | A       |
| 140   | Aquilegia         |     | viridiflora                           | PT    | blue |      | PE    | 50 SNOW   | A 3     |
| 141   | Aquilegia         |     | vulgaris                              | PT    | burg |      | PE    | 30 TAYL   | A       |
| 142   | Aquilegia         |     | vulgaris                              | PT    | mix  |      | PE    | 60 LEVY   | A       |
| 143   | Aquilegia         |     | vulgaris                              | PT    | purp | whit | PE    | 80 MIDD   | A       |
| 144   | Aquilegia         |     | vulgaris                              | PT    | purp | whit | PE    | 30 TAYL   | A       |
| 145   | Aquilegia         |     | vulgaris                              | PT    | purp |      | PE    | 90 COOK   | A       |
| 146   | Aquilegia         |     | vulgaris                              | PT    | whit |      | PE    | 30 TAYL   | A       |
| 147   | Aquilegia         |     | vulgaris double                       | PT    | pink |      | PE    | 45 ALLA   | A       |
| 148   | Aquilegia         |     | vulgaris var. stellata                | PT    | pink |      | PE    | 45 WALK   | A       |
| 149   | Aquilegia         |     | vulgaris var. stellata 'Black Barlow' | PT    | blac |      | PE    | 40 BREL   | A       |
| 150   | Aquilegia         |     | vulgaris var. stellata 'Black Barlow' | PT    | blac |      | PE    | 20 PETT   | A       |
| 151   | Aquilegia         |     | vulgaris var. stellata 'Black Barlow' | PT    | blac |      | PE    | 30 SHAW   | A       |
| 152   | Aquilegia         |     | vulgaris var. stellata 'Nora Barlow'  | PT    | pink | whit | PE    | 90 COOK   | A       |
| 153   | Aquilegia         |     | vulgaris var. stellata 'Nora Barlow'  | PT    | pink |      | PE    | 76 ALLA   | A       |
| 154   | Arabis            |     | androsacea                            | PT    | whit |      | PE    | 15 ALLA   | A       |
| 155   | Arabis            |     | blepharophylla                        | PT    | pink |      | PE    | 20 CLAR   | A       |
| 156   | Arabis            |     | caucasica 'Rosea'                     | PT    | rose |      | PE    | 30 MIDD   | A 3     |
| 157   | Arabis            |     | caucasica 'Schneehaube'               | PT    | whit |      | PE    | 15 SHAW   | A 3     |
| 158   | Arabis            |     | collina                               | PT    | pink |      | PE    | 15 BREL   | A       |
| 159   | Arabis            |     | pumila                                | PT    | whit |      | PE    | 15 ALLA   | A       |
| 160   | Aralia            |     | californica                           | PT    | whit |      | PE    | 300 CARR  | G       |
| 161   | Aralia            |     | cordata                               | PT    | whit |      | PE    | 300 CARR  | ! L     |
| 162   | Aralia            |     | elata                                 | PT    | whit |      | PE    | 300 CARR  | G       |
| 163   | Aralia            |     | hispida <sup>w</sup>                  | PT    | whit |      | PE    | 50 COST   | L       |
| 164   | Aralia            |     | racemosa <sup>w</sup>                 | PT    | whit |      | PE    | 60 COST   | ! H 4   |
| 165   | Arenaria          |     | grandiflora                           | PT    | whit |      | PE    | 8 CLAR    | A       |
| 166   | Arenaria          |     | sp.                                   | PT    | whit |      | PE    | 15 ALLA   | A       |
| 167   | Arisaema          |     | amurense                              | PT    | gree | whit | PE    | 100 STUA  | A 8 *   |
| 168   | Arisaema          |     | flavum                                | PT    | yell |      | BU    | 60 GREE   | A 8 *   |
| 169   | Arisaema          |     | flavum                                | PT    | yell |      | PE    | 15 MIDD   | A 8 *   |
| 170   | Arisaema          |     | sikokianum                            | PT    | whit |      | PE    | 45 BOTI   | A 8 *   |
| 171   | Arisaema          |     | triphylum <sup>w</sup>                | PT    | gree | burg | PE    | 35 COST   | A 8 *   |
| 172   | Arisaema          |     | triphylum                             | PT    | gree | purp | PE    | 20 MIDD   | A 8 *   |
| 173   | Aristolochia      |     | littoralis                            | PT    | whit | purp | VI    | 1000 GLEN | A       |
| 174   | Armeria           |     | alpina                                | PT    | purp |      | PE    | 20 PETT   | A       |
| 175   | Armeria           |     | juniperifolia                         | PT    | rose |      | PE    | 15 TAYL   | A       |
| 176   | Armeria           |     | maritima                              | PT    | whit |      | PE    | 25 CHAR   | A 2     |
| 177   | Armeria           |     | sp. ex Iceland                        | PT    | pink |      | PE    | 4 HILD    | A 2     |
| 178   | Arnica            |     | longifolia                            | PT    | yell |      | PE    | 6 HILD    | A       |
| 179   | Aruncus           |     | sylvester                             | PT    | whit |      | PE    | 20 BONY   | J 3     |
| 180   | Asclepias         |     | curassavica                           | PT    | yell |      | AN    | 35 CLAR   | A       |
| 181   | Asclepias         |     | exaltata                              | PT    | whit |      | PE    | 150 CARR  | J       |
| 182   | Asclepias         |     | incarnata                             | PT    | pink |      | PE    | 120 COOK  | A 1 3 * |
| 183   | Asclepias         |     | incarnata 'Ice Ballet'                | PT    | whit |      | PE    | 90 CARR   | J 1 3 * |
| 184   | Asclepias         |     | syriaca                               | PT    | pink | whit | PE    | 140 KERR  | A       |
| 185   | Asclepias         |     | syriaca                               | PT    | pink |      | PE    | 120 COOK  | A       |
| 186   | Asclepias         |     | syriaca                               | PT    | pink |      | PE    | 100 LEGG  | A       |
| 187   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 61 CALL   | A 1 *   |
| 188   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 80 COOK   | A 1 *   |
| 189   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 50 DOLB   | A 1 *   |
| 190   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 60 GAGN   | A 1 *   |
| 191   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 45 HILD   | A 1 *   |
| 192   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 45 HOOG   | A 1 *   |
| 193   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 50 LEEM   | A 1 *   |
| 194   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 80 LIGH   | A 1 *   |
| 195   | Asclepias         |     | tuberosa                              | PT    | oran |      | PE    | 60 TAYL   | A 1 *   |
| 196   | Asphodeline       |     | lutea                                 | PT    | yell |      | PE    | 40 VANS   | A       |
| 197   | Asphodeline       |     | taurica                               | PT    | whit |      | PE    | 15 HILD   | A       |
| 198   | Aster             |     | alpinus                               | PT    | blue |      | PE    | 12 SNOW   | A       |

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| Genus | Species or Hybrid | P T | Col-1                                       | Col-2 | Tp   | Ht   | Donor       | G.Codes |
|-------|-------------------|-----|---|-------|------|------|-------------|---------|
| 199   | Aster             |     | alpinus 'Albus'                             | PT    | whit | PE   | 20 WALK     | A       |
| 200   | Aster             |     | alpinus 'Goliath'                           | PT    | purp | PE   | 20 BREL     | J       |
| 201   | Aster             |     | diplostephioides                            | PT    | blue | PE   | 13 WALK     | J       |
| 202   | Astilbe           |     | rubra                                       | PT    | purp | PE   | 80 MERR     | A       |
| 203   | Astilbe           |     | rubra 'Valerie'                             | PT    | purp | PE   | 45 SHAW     | A       |
| 204   | Astrantia         |     | major                                       | PT    | pink | PE   | 45 SAVA     | ! H 2   |
| 205   | Astrantia         |     | major 'Sunningdale Variegated'              | PT    | whit | gree | PE 60 HOOG  | ! H 2   |
| 206   | Astrantia         |     | sp.   | PT    | mix  | PE   | 60 HOOG     | ! H 2   |
| 207   | Atropa            |     | belladonna                                  | PT    | purp | PE   | 150 CARR    | L 4 7   |
| 208   | Avenella          |     | flexuosa <sup>w</sup>                       | PT    | crea | PE   | 35 COST     | A       |
| 209   | Baptisia          |     | x varicolor 'Twilite' (Prairieblues Series) | PT    | purp | yell | PE 140 DOLB | A 7 *   |
| 210   | Baptisia          |     | australis                                   | PT    | blue | PE   | 140 DOLB    | A 7 *   |
| 211   | Baptisia          |     | australis                                   | PT    | blue | PE   | 120 TAYL    | A 7 *   |
| 212   | Baptisia          |     | 'Lemon Meringue'                            | PT    | yell | PE   | 100 DOLB    | A 7 *   |
| 213   | Baptisia          |     | 'Solar Flare'                               | PT    | yell | PE   | 100 SHAW    | A 7 *   |
| 214   | Baptisia          |     | sp.   | PT    | blue | PE   | 92 PALM     | A 7 *   |
| 215   | Baptisia          |     | 'Vanilla Cream'                             | PT    | crea | PE   | 90 GAGN     | A 7 *   |
| 216   | Barbarea          |     | rupicola                                    | PT    | yell | PE   | 10 GREE     | A       |
| 217   | Barnardia         |     | japonica                                    | PT    | pink | BU   | 30 CLAR     | A       |
| 218   | Barnardia         |     | japonica var. japonica                      | PT    | pink | BU   | 35 SMIT     | A       |
| 219   | Begonia           |     | grandis subsp. sinensis                     | PT    | pink | BU   | 60 STUA     | A       |
| 220   | Bellevalia        |     | paradoxa                                    | PT    | blue | BU   | 25 BREL     | J       |
| 221   | Betula            |     | pendula 'Golden Cloud'                      | PT    |      | TR   | 400 LEEM    | J       |
| 222   | Borago            |     | officinalis                                 | PT    | blue | AN   | 30 HARV     | A N 1   |
| 223   | Bouteloua         |     | curtipendula                                | PT    | beig | PE   | 90 COOK     | [X] A   |
| 224   | Briza             |     | maxima                                      | PT    | beig | AN   | 50 GAGN     | A       |
| 225   | Calamintha        |     | sp.   | PT    | blue | PE   | 28 SMIT     | ? Try B |
| 226   | Calceolaria       |     | biflora                                     | PT    | yell | PE   | 6 VAXV      | A       |
| 227   | Calceolaria       |     | chelidonioides                              | PT    | yell | AN   | 40 BREL     | A 3     |
| 228   | Callicarpa        |     | sp.   | PT    | pink | SH   | 150 LEGG    | ? Try 8 |
| 229   | Callistephus      |     | chinensis                                   | PT    | mix  | AN   | 40 BREL     | A       |
| 230   | Caltha            |     | palustris                                   | PT    | yell | PE   | 50 COOK     | ! L 5 * |
| 231   | Calycanthus       |     | 'Aphrodite'                                 | PT    | burg | SH   | 200 TAYL    | A       |
| 232   | Calycanthus       |     | floridus                                    | PT    | burg | SH   | 150 SHAW    | A       |
| 233   | Camassia          |     | sp.   | PT    | blue | whit | BU 50 LEGG  | G       |
| 234   | Campanula         |     | armena                                      | PT    | blue | PE   | 45 SAVA     | A       |
| 235   | Campanula         |     | carpatica                                   | PT    | blue | PE   | 15 MERR     | A       |
| 236   | Campanula         |     | cochleariifolia                             | PT    | blue | PE   | 10 ALLA     | A       |
| 237   | Campanula         |     | latifolia                                   | PT    | blue | whit | PE 90 MIDD  | A 3     |
| 238   | Campanula         |     | latifolia                                   | PT    | blue | PE   | 90 LEVY     | A 3     |
| 239   | Campanula         |     | latifolia                                   | PT    | blue | PE   | 90 MIDD     | A 3     |
| 240   | Campanula         |     | latifolia                                   | PT    | whit | PE   | 100 DOLB    | A 3     |
| 241   | Campanula         |     | latifolia                                   | PT    | whit | PE   | 90 LEVY     | A 3     |
| 242   | Campanula         |     | latifolia                                   | PT    | whit | PE   | 90 MIDD     | A 3     |
| 243   | Campanula         |     | medium                                      | PT    | mix  | BI   | 60 COOK     | A       |
| 244   | Campanula         |     | persicifolia                                | PT    | blue | whit | PE 90 LEVY  | A       |
| 245   | Campanula         |     | persicifolia                                | PT    | blue | whit | PE 80 LIGH  | A       |
| 246   | Campanula         |     | persicifolia                                | PT    | blue | PE   | 75 ALLA     | A       |
| 247   | Campanula         |     | persicifolia 'Nitida Alba'                  | PT    | whit | PE   | 20 ALLA     | A       |
| 248   | Campanula         |     | rotundifolia                                | PT    | blue | PE   | 25 COST     | A       |
| 249   | Campanula         |     | 'Samantha'                                  | PT    | blue | PE   | 20 ALLA     | A       |
| 250   | Campanula         |     | 'Samantha'                                  | PT    | blue | PE   | 15 VANS     | A       |
| 251   | Campanula         |     | saxifraga subsp. aucheri                    | PT    | blue | PE   | 10 HILD     | A       |
| 252   | Campanula         |     | trachelium                                  | PT    | blue | whit | PE 90 LEVY  | A       |
| 253   | Caragana          |     | pygmaea                                     | PT    | yell | SH   | 50 CLAR     | A 6 7 * |
| 254   | Carex             |     | grayi                                       | PT    | gree | PE   | 40 COST     | A 3     |
| 255   | Carex             |     | muskingumensis                              | PT    | gree | PE   | 60 GAGN     | A 3     |
| 256   | Carex             |     | rosea <sup>w</sup>                          | PT    | gree | crea | PE 20 COST  | H       |
| 257   | Castilleja        |     | miniata                                     | PT    | red  | PE   | 30 VAXV     | [X] C * |
| 258   | Catananche        |     | caerulea                                    | PT    | lave | PE   | 40 CHAR     | A       |
| 259   | Catananche        |     | caerulea                                    | PT    | lila | PE   | 60 HEND     | A       |
| 260   | Ceanothus         |     | americanus                                  | PT    | whit | PE   | 35 SPUR     | L 6 7 * |
| 261   | Cenolophium       |     | denudatum                                   | PT    | whit | PE   | 60 WRIG     | J       |
| 262   | Centaurea         |     | macrocephala                                | PT    | gold | PE   | 120 HEND    | A       |
| 263   | Centaurea         |     | macrocephala                                | PT    | yell | PE   | 150 CARR    | A       |
| 264   | Cephalanthus      |     | occidentalis <sup>w</sup>                   | PT    | whit | SH   | 200 COST    | A 3     |



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| Genus | Species or Hybrid | P T                         | Col-1 | Col-2 | Tp | Ht   | Donor | G.Codes |
|-------|-------------------|-----------------------------|-------|-------|----|------|-------|---------|
| 265   | Cephalanthus      | occidentalis                | PT    | whit  | SH | 200  | SHAW  | A 3     |
| 266   | Cephalaria        | alpina                      | PT    | crea  | PE | 150  | WALK  | A       |
| 267   | Cephalaria        | gigantea                    | PT    | crea  | PE | 180  | SAVA  | B       |
| 268   | Cephalaria        | gigantea                    | PT    | yell  | PE | 150  | COOK  | B       |
| 269   | Cephalaria        | gigantea                    | PT    | yell  | PE | 120  | SHAW  | B       |
| 270   | Ceratotheca       | triloba                     | PT    | pink  | PE | 20   | CLAR  | A       |
| 271   | Cercidiphyllum    | japonicum                   | PT    | brow  | TR | 800  | CARR  | G       |
| 272   | Cercis            | canadensis                  | PT    | pink  | TR | 500  | LEEM  | A 6 7 * |
| 273   | Cercis            | canadensis                  | PT    | pink  | TR | 400  | LEGG  | A 6 7 * |
| 274   | Cercis            | canadensis                  | PT    | pink  | TR | 900  | MART  | A 6 7 * |
| 275   | Cercis            | canadensis f. alba          | PT    | whit  | TR | 300  | LEGG  | A 6 7 * |
| 276   | Cerithe           | major                       | PT    | blue  | AN | 45   | HARV  | A       |
| 277   | Cerithe           | major subsp. purpurascens   | PT    | purp  | AN | 50   | BREL  | A       |
| 278   | Chaenorhinum      | origanifolium               | PT    | blue  | PE | 12   | TAYL  | A 3     |
| 279   | Chaenorhinum      | origanifolium               | PT    | purp  | PE | 15   | ALLA  | A 3     |
| 280   | Chaerophyllum     | aureum                      | PT    | crea  | PE | 120  | CARR  | ! J     |
| 281   | Chaerophyllum     | hirsutum 'Roseum'           | PT    | whit  | PE | 60   | CARR  | ! L     |
| 282   | Chasmanthium      | latifolium                  | PT    | gree  | PE | 60   | COOK  | G       |
| 283   | Chasmanthium      | latifolium                  | PT    | gree  | PE | 80   | DOLB  | G       |
| 284   | Chelone           | glabra                      | PT    | whit  | PE | 90   | COOK  | A 3     |
| 285   | Chelone           | glabra                      | PT    | whit  | PE | 120  | MURP  | A 3     |
| 286   | Chelone           | lyonii                      | PT    | pink  | PE | 90   | COOK  | B       |
| 287   | Chelone           | obliqua                     | PT    | pink  | PE | 45   | LEGG  | A       |
| 288   | Chelonopsis       | yagiharana                  | PT    | purp  | PE | 50   | GREE  | A       |
| 289   | Chiastophyllum    | oppositifolium              | PT    | yell  | PE | 20   | HOWE  | A 3     |
| 290   | Chiastophyllum    | oppositifolium              | PT    | yell  | PE | 6    | MERR  | A 3     |
| 291   | Chiastophyllum    | oppositifolium              | PT    | yell  | PE | 10   | STUA  | A 3     |
| 292   | Cistanthe         | grandiflora                 | PT    | blue  | AN | 40   | SMIT  | J       |
| 293   | Cladrastis        | kentukea                    | PT    | whit  | TR | 5000 | GLEN  | G 6 *   |
| 294   | Clematis          | 'Alionushka'                | PT    | pink  | PE | 150  | LEGG  | A 9     |
| 295   | Clematis          | crispa                      | PT    | lave  | VI | 300  | VANS  | H       |
| 296   | Clematis          | fusca                       | PT    | purp  | VI | 250  | MIDD  | L 9     |
| 297   | Clematis          | glaucophylla                | PT    | pink  | VI | 120  | COST  | L 9     |
| 298   | Clematis          | heracleifolia               | PT    | blue  | PE | 90   | COOK  | G 9     |
| 299   | Clematis          | heracleifolia 'Cassandra'   | PT    | blue  | PE | 100  | LEGG  | A 9     |
| 300   | Clematis          | hexapetala                  | PT    | whit  | PE | 60   | DOLB  | L 9     |
| 301   | Clematis          | hexapetala                  | PT    | whit  | PE | 90   | RICH  | L 9     |
| 302   | Clematis          | hirsutissima var. scottii   | PT    | blue  | PE | 60   | MIDD  | L       |
| 303   | Clematis          | integrifolia                | PT    | blue  | PE | 30   | BEAU  | A 9     |
| 304   | Clematis          | integrifolia                | PT    | blue  | PE | 30   | HILD  | A 9     |
| 305   | Clematis          | integrifolia                | PT    | blue  | PE | 50   | MIDD  | A 9     |
| 306   | Clematis          | mix                         | PT    | blue  | VI | 400  | MIDD  | L 9     |
| 307   | Clematis          | 'Mrs. Harvey'               | PT    | blue  | VI | 240  | TAYL  | L 9     |
| 308   | Clematis          | 'Mrs. Harvey'               | PT    | purp  | VI | 300  | VANS  | L 9     |
| 309   | Clematis          | occidentalis                | PT    | rose  | VI | 120  | COST  | D 9     |
| 310   | Clematis          | recta                       | PT    | whit  | PE | 122  | ALLA  | ! A 2   |
| 311   | Clematis          | recta                       | PT    | whit  | PE | 180  | GAGN  | ! A 2   |
| 312   | Clematis          | recta                       | PT    | whit  | PE | 60   | HILD  | ! A 2   |
| 313   | Clematis          | recta                       | PT    | whit  | VI | 2000 | LEVY  | ! A 2   |
| 314   | Clematis          | recta                       | PT    | whit  | PE | 100  | WALK  | ! A 2   |
| 315   | Clematis          | recta 'Purpurea'            | PT    | whit  | PE | 122  | ALLA  | ! A 2   |
| 316   | Clematis          | 'Sonnette'                  | PT    | pink  | VI | 250  | VANS  | A 9     |
| 317   | Clematis          | sp.                         | PT    | whit  | VI | 150  | HOOG  | [X] L   |
| 318   | Clematis          | stans                       | PT    | blue  | VI | 100  | SPUR  | G 9     |
| 319   | Clematis          | terniflora var. mandshurica | PT    | whit  | VI | 150  | BONY  | E 9     |
| 320   | Clematis          | terniflora var. mandshurica | PT    | whit  | VI | 120  | SHAW  | E 9     |
| 321   | Clematis          | texensis                    | PT    | red   | VI | 200  | VANS  | E 9 *   |
| 322   | Clematis          | vinacea                     | PT    | pink  | VI | 1000 | GLEN  | A       |
| 323   | Clematis          | viorna                      | PT    | pink  | VI | 200  | LEGG  | A 9     |
| 324   | Clematis          | viticella                   | PT    | purp  | VI | 200  | LEGG  | E 9     |
| 325   | Cleome            | dodecandra                  | PT    | whit  | AN | 60   | LIGH  | A       |
| 326   | Codonopsis        | clematidea                  | PT    | blac  | PE | 120  | SAVA  | ! A 3   |
| 327   | Codonopsis        | clematidea                  | PT    | whit  | PE | 60   | LEVY  | ! A 3   |
| 328   | Codonopsis        | lanceolata                  | PT    | purp  | VI | 200  | WELS  | B 3     |
| 329   | Consolida         | regalis                     | PT    | pink  | AN | 25   | MIDD  | A N     |
| 330   | Consolida         | regalis                     | PT    | whit  | AN | 25   | MIDD  | A N     |

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| Genus | Species or Hybrid                        | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes   |
|-------|--|-----|-------|-------|----|-----|-------|-----------|
| 331   | Conyza nana                              | PT  | whit  |       | PE | 4   | HILD  | A         |
| 332   | Coreopsis hybrid                         | PT  | yell  | red   | AN | 50  | BREL  | K         |
| 333   | Coreopsis lanceolata                     | PT  | yell  |       | PE | 60  | COOK  | A         |
| 334   | Coreopsis 'Red Satin'                    | PT  | red   |       | PE | 15  | PETT  | ?         |
| 335   | Coreopsis 'Sterntaler'                   | PT  | yell  | burg  | PE | 40  | SHAW  | A         |
| 336   | Coreopsis tripteris                      | PT  | yell  |       | PE | 180 | COOK  | B 3       |
| 337   | Coreopsis verticillata                   | PT  | yell  |       | PE | 60  | SHAW  | K         |
| 338   | Coriandrum sativum                       | PT  | whit  |       | AN | 60  | PETT  | A N 1     |
| 339   | Cornus mas                               | PT  | yell  |       | TR | 400 | LEGG  | G 8 *     |
| 340   | Cortusa matthioli subsp. turkestanica    | PT  | purp  |       | PE | 45  | SAVA  | A         |
| 341   | Corydalis ophiocarpa                     | PT  | crea  |       | PE | 35  | COST  | ! L       |
| 342   | Cosmos sulphureus                        | PT  | gold  |       | AN | 70  | LIGH  | A         |
| 343   | Cosmos sulphureus                        | PT  | oran  |       | AN | 61  | CALL  | A         |
| 344   | Crambe cordifolia                        | PT  | whit  |       | PE | 150 | COOK  | A 3       |
| 345   | Crococsmia 'Lucifer'                     | PT  | red   |       | PE | 100 | DOLB  | A         |
| 346   | Crococsmia 'Lucifer'                     | PT  | red   |       | PE | 90  | MERR  | A         |
| 347   | Crococsmia 'Lucifer'                     | PT  | red   |       | PE | 90  | REDD  | A         |
| 348   | Crococsmia 'Lucifer'                     | PT  | red   |       | PE | 60  | SHAW  | A         |
| 349   | Crococsmia sp.                           | PT  | oran  |       | PE | 90  | CARR  | K         |
| 350   | Cryptotaenia japonica                    | PT  | whit  |       | PE | 15  | MERR  | D 2       |
| 351   | Cynara cardunculus                       | PT  | blue  |       | PE | 150 | HARV  | [X] A     |
| 352   | Cypripedium sp.                          | PT  | yell  | brow  | PE | 30  | VANS  | [X] A 3 * |
| 353   | Dactylorhiza sp.                         | PT  | purp  |       | PE | 30  | VANS  | [X] A *   |
| 354   | Dalea purpurea                           | PT  | purp  |       | PE | 90  | COOK  | A 6 7     |
| 355   | Daphne domini                            | PT  | pink  |       | SH | 20  | LEGG  | ! G 6 8   |
| 356   | Datisca cannabina                        | PT  | gree  |       | PE | 300 | CARR  | B         |
| 357   | Datura stramonium                        | PT  | lave  | whit  | AN | 250 | KERR  | A 3       |
| 358   | Daucus carota subsp. maximus             | PT  | purp  |       | PE | 80  | CARR  | A         |
| 359   | Delphinium ajacis 'QIS Dark Blue'        | PT  | blue  |       | AN | 90  | RICH  | A         |
| 360   | Delphinium elatum                        | PT  | blue  |       | PE | 150 | SMIT  | ! J       |
| 361   | Delphinium elatum                        | PT  | mix   |       | PE | 150 | COOK  | ! J       |
| 362   | Delphinium glaucum "                     | PT  | blue  |       | PE | 120 | SAVA  | C         |
| 363   | Delphinium grandiflorum                  | PT  | blue  |       | PE | 50  | BREL  | K         |
| 364   | Delphinium grandiflorum                  | PT  | blue  |       | PE | 40  | MERR  | K         |
| 365   | Delphinium 'Pacific Giants'              | PT  | blue  | whit  | PE | 100 | WELS  | A         |
| 366   | Delphinium sp.                           | PT  | blue  |       | PE | 150 | HOOG  | [X] J     |
| 367   | Delphinium sp.                           | PT  | blue  |       | PE | 122 | PALM  | [X] J     |
| 368   | Delphinium sp.                           | PT  | blue  |       | PE | 15  | PETT  | [X] J     |
| 369   | Delphinium Summer Skies Group            | PT  | blue  |       | PE | 80  | HEND  | J         |
| 370   | Desmodium canadense                      | PT  | pink  |       | PE | 150 | COOK  | A 6       |
| 371   | Dianthus acicularis                      | PT  | whit  |       | PE | 10  | BREL  | A         |
| 372   | Dianthus acicularis                      | PT  | whit  |       | PE | 6   | MERR  | A         |
| 373   | Dianthus 'Berlin Snow'                   | PT  | whit  |       | PE | 5   | ALLA  | A         |
| 374   | Dianthus chinensis                       | PT  | lave  |       | PE | 10  | COSE  | A         |
| 375   | Dianthus chinensis                       | PT  | pink  |       | PE | 10  | HOWE  | A         |
| 376   | Dianthus chinensis                       | PT  | purp  |       | PE | 6   | MERR  | A         |
| 377   | Dianthus deltoides                       | PT  | red   |       | PE | 20  | ALLA  | A         |
| 378   | Dianthus gratianopolitanus 'Sternkissen' | PT  | pink  |       | PE | 10  | SMIT  | A 2       |
| 379   | Dianthus haematocalyx                    | PT  | pink  |       | PE | 10  | CLAR  | A         |
| 380   | Dianthus microlepis                      | PT  | red   |       | PE | 10  | ALLA  | A         |
| 381   | Dianthus microlepis                      | PT  | red   |       | PE | 10  | TAYL  | A         |
| 382   | Dianthus pavonius                        | PT  | pink  |       | PE | 10  | ALLA  | A         |
| 383   | Dianthus simulans                        | PT  | pink  |       | PE | 5   | ALLA  | A         |
| 384   | Dianthus simulans                        | PT  | whit  |       | PE | 25  | BREL  | A         |
| 385   | Dianthus sp.                             | PT  | pink  |       | PE | 15  | BONY  | A         |
| 386   | Dianthus sp.                             | PT  | pink  |       | PE | 5   | TAYL  | A         |
| 387   | Dianthus squarrosus                      | PT  | whit  |       | PE | 12  | MIDD  | A         |
| 388   | Dianthus sylvestris                      | PT  | whit  |       | PE | 6   | MERR  | A         |
| 389   | Dianthus uralensis                       | PT  | whit  |       | PE | 15  | BREL  | A         |
| 390   | Dictamnus albus                          | PT  | pink  |       | PE | 30  | COOK  | [X] ! J   |
| 391   | Dictamnus albus                          | PT  | pink  |       | PE | 50  | COST  | [X] ! J   |
| 392   | Dictamnus albus                          | PT  | pink  |       | PE | 80  | SNOW  | [X] ! J   |
| 393   | Dictamnus albus                          | PT  | purp  | whit  | PE | 80  | MIDD  | [X] ! J   |
| 394   | Dictamnus albus 'Albiflorus'             | PT  | whit  |       | PE | 50  | COST  | [X] ! J   |
| 395   | Dictamnus albus 'Albiflorus'             | PT  | whit  |       | PE | 80  | SNOW  | [X] ! J   |
| 396   | Digitalis ferruginea                     | PT  | yell  | brow  | BI | 100 | MIDD  | A         |

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| Genus | Species or Hybrid                           | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes |
|-------|---|-----|-------|-------|----|-----|-------|---------|
| 397   | Digitalis grandiflora                       | PT  | yell  |       | PE | 90  | LEVY  | A       |
| 398   | Digitalis grandiflora                       | PT  | yell  |       | PE | 100 | LIGH  | A       |
| 399   | Digitalis lanata                            | PT  | beig  |       | PE | 80  | WALK  | A       |
| 400   | Digitalis lanata                            | PT  | crea  | brow  | BI | 120 | COOK  | A       |
| 401   | Digitalis lanata                            | PT  | whit  | beig  | BI | 60  | HEND  | A       |
| 402   | Digitalis lutea                             | PT  | crea  |       | PE | 100 | LIGH  | A       |
| 403   | Digitalis lutea                             | PT  | whit  |       | PE | 50  | MIDD  | A       |
| 404   | Digitalis lutea                             | PT  | yell  |       | PE | 30  | CLAR  | A       |
| 405   | Digitalis lutea                             | PT  | yell  |       | PE | 90  | STUA  | A       |
| 406   | Digitalis purpurea                          | PT  | pink  |       | BI | 122 | PALM  | A       |
| 407   | Digitalis purpurea                          | PT  | whit  |       | BI | 35  | CLAR  | A       |
| 408   | Digitalis purpurea Foxy Group               | PT  | whit  |       | BI | 40  | TAYL  | A       |
| 409   | Dioscorea caucasica                         | PT  | beig  |       | VI | 180 | COST  | L *     |
| 410   | Doronicum orientale 'Little Leo'            | PT  | yell  |       | PE | 30  | VANS  | A       |
| 411   | Draba cretica                               | PT  | yell  |       | PE | 5   | CLAR  | A       |
| 412   | Draba cusickii                              | PT  | yell  |       | PE | 5   | CLAR  | A       |
| 413   | Draba hispanica                             | PT  | yell  |       | PE | 15  | ALLA  | A 3     |
| 414   | Draba hispanica                             | PT  | yell  |       | PE | 15  | SHAW  | A 3     |
| 415   | Draba korabensis                            | PT  | yell  |       | PE | 5   | CLAR  | A 3     |
| 416   | Draba longisiliqua                          | PT  | whit  |       | PE | 5   | MERR  | A 3     |
| 417   | Draba paysonii                              | PT  | yell  |       | PE | 4   | ALLA  | A 3     |
| 418   | Draba rosularis                             | PT  | yell  |       | PE | 5   | CLAR  | A 3     |
| 419   | Draba sp.                                   | PT  | yell  |       | PE | 8   | GREE  | A 3     |
| 420   | Draba sp.                                   | PT  | yell  |       | PE | 5   | SHAW  | A 3     |
| 421   | Dracocephalum foetidum                      | PT  | blue  |       | PE | 40  | WALK  | A       |
| 422   | Dracocephalum wendelboi                     | PT  | blue  |       | PE | 15  | CLAR  | A       |
| 423   | Drosera intermedia <sup>w</sup>             | PT  | whit  |       | PE | 20  | COST  | L *     |
| 424   | Drosera linearis <sup>w</sup>               | PT  | whit  |       | PE | 10  | COST  | J *     |
| 425   | Dryas drummondii <sup>w</sup>               | PT  | yell  |       | PE | 20  | SAVA  | ! A     |
| 426   | Dryas suendermanni                          | PT  | crea  |       | PE | 15  | ALLA  | A       |
| 427   | Drymocallis rupestris                       | PT  | whit  |       | SH | 50  | ALLA  | A 3     |
| 428   | Drymocallis rupestris                       | PT  | whit  |       | PE | 40  | CLAR  | A 3     |
| 429   | Echinacea angustifolia                      | PT  | purp  |       | PE | 35  | YATE  | A       |
| 430   | Echinacea pallida                           | PT  | pink  |       | PE | 120 | COOK  | A       |
| 431   | Echinacea pallida                           | PT  | pink  |       | PE | 70  | SHAW  | A       |
| 432   | Echinacea purpurea                          | PT  | pink  |       | PE | 120 | COOK  | A       |
| 433   | Echinacea purpurea                          | PT  | pink  |       | PE | 80  | VARA  | A       |
| 434   | Echinacea purpurea                          | PT  | rose  |       | PE | 120 | TAYL  | A       |
| 435   | Echinacea purpurea 'Baby Swan White'        | PT  | whit  |       | PE | 35  | MIDD  | A       |
| 436   | Echinacea purpurea 'Kim's Knee High'        | PT  | pink  |       | PE | 40  | ALLA  | A       |
| 437   | Echinacea Sombrero Series                   | PT  | oran  |       | PE | 45  | SHAW  | A       |
| 438   | Echinacea Sombrero Series                   | PT  | red   | pink  | PE | 60  | WELS  | A       |
| 439   | Echinacea sp.                               | PT  | pink  | whit  | PE | 40  | HOOG  | [X] G   |
| 440   | Echinops bannaticus 'Star Frost'            | PT  | whit  |       | PE | 50  | YATE  | A       |
| 441   | Echinops ritro                              | PT  | blue  |       | PE | 100 | COOK  | A       |
| 442   | Echinops ritro 'Veitch's Blue'              | PT  | blue  |       | PE | 75  | TAYL  | A       |
| 443   | Echinops spinosissimus subsp. spinosissimus | PT  | whit  |       | PE | 180 | CARR  | A       |
| 444   | Echinops spinosissimus subsp. spinosissimus | PT  | whit  |       | PE | 180 | COOK  | A       |
| 445   | Echium amoenum                              | PT  | red   |       | PE | 20  | VARA  | A       |
| 446   | Echium vulgare 'Blue Bedder'                | PT  | blue  |       | AN | 30  | HARV  | F       |
| 447   | Edraianthus graminifolius                   | PT  | blue  |       | PE | 10  | MIDD  | A       |
| 448   | Edraianthus serbicus                        | PT  | purp  |       | PE | 12  | CLAR  | A       |
| 449   | Elymus canadensis                           | PT  | brow  |       | PE | 150 | COOK  | [X] G   |
| 450   | Elymus elymoides <sup>w</sup>               | PT  | beig  |       | PE | 60  | EICH  | [X] J   |
| 451   | Eranthis hyemalis                           | PT  | yell  |       | BU | 10  | COSE  | ! C *   |
| 452   | Eremurus x isabellinus 'Cleopatra'          | PT  | yell  |       | BU | 120 | TAYL  | L       |
| 453   | Erigeron acris                              | PT  | blue  |       | PE | 5   | MERR  | A       |
| 454   | Erigeron borealis                           | PT  | pink  |       | PE | 15  | SMIT  | A       |
| 455   | Erigeron glaucus                            | PT  | pink  |       | PE | 25  | GREE  | F       |
| 456   | Erigeron pinnatisectus                      | PT  | pink  |       | PE | 10  | ALLA  | A       |
| 457   | Erinus alpinus                              | PT  | mix   |       | PE | 15  | COST  | A 3     |
| 458   | Eriogonum compositum                        | PT  | crea  |       | PE | 30  | VANS  | A       |
| 459   | Eriogonum sp.                               | PT  | whit  |       | PE | 15  | BONY  | [X] G   |
| 460   | Eriogonum umbellatum subsp. umbellatum      | PT  | yell  |       | PE | 30  | VANS  | C 1     |
| 461   | Eriophyllum lanatum                         | PT  | yell  |       | PE | 25  | WALK  | F       |
| 462   | Eritrichium pectinatum                      | PT  | blue  |       | AN | 15  | SPUR  | J       |

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| Genus | Species or Hybrid                             | P  | T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes   |
|-------|---|----|---|-------|-------|----|-----|-------|-----------|
| 463   | Eryngium amethystinum                         | PT |   | silv  | blue  | PE | 60  | HARV  | G         |
| 464   | Eryngium bourgatii                            | PT |   | blue  |       | PE | 50  | DOLB  | E         |
| 465   | Eryngium giganteum                            | PT |   | silv  |       | PE | 90  | MERR  | E 1       |
| 466   | Eryngium pandanifolium                        | PT |   | blue  |       | PE | 150 | CARR  | E         |
| 467   | Eryngium planum 'Blue Glitter'                | PT |   | blue  |       | PE | 60  | SHAW  | B         |
| 468   | Eryngium planum 'Blue Hobbit'                 | PT |   | blue  |       | PE | 20  | MERR  | B         |
| 469   | Eryngium sp.                                  | PT |   | blue  |       | PE | 100 | COOK  | [X] L     |
| 470   | Eryngium sp.                                  | PT |   | blue  |       | PE | 45  | VARA  | [X] L     |
| 471   | Eryngium yuccifolium                          | PT |   | gree  |       | PE | 120 | SHAW  | F         |
| 472   | Escobaria vivipara                            | PT |   | pink  |       | PE | 5   | MIZY  | A         |
| 473   | Eucomis sp.                                   | PT |   |       |       | BU |     | HARV  | A         |
| 474   | Euphorbia leuconeura                          | PT |   | crea  |       | PE | 90  | SAVA  | A         |
| 475   | Euphorbia marginata                           | PT |   | whit  | gree  | AN | 40  | MIDD  | A N 1     |
| 476   | Euphorbia marginata                           | PT |   | whit  |       | AN | 55  | BREL  | A N 1     |
| 477   | Eutrochium dubium 'Baby Joe'                  | PT |   | pink  |       | PE | 50  | BREL  | G         |
| 478   | Eutrochium dubium 'Baby Joe'                  | PT |   | pink  |       | PE | 90  | RICH  | G         |
| 479   | Eutrochium purpureum                          | PT |   | purp  |       | PE | 180 | COOK  | A         |
| 480   | Eutrochium purpureum                          | PT |   | purp  |       | PE | 150 | HARV  | A         |
| 481   | Eutrochium purpureum                          | PT |   | purp  |       | PE | 180 | MART  | A         |
| 482   | Ferula communis                               | PT |   | yell  |       | PE | 250 | CARR  | A         |
| 483   | Filipendula rubra                             | PT |   | pink  |       | PE | 50  | HARV  | ! E       |
| 484   | Filipendula rubra 'Venusta'                   | PT |   | rose  |       | PE | 120 | TAYL  | ! E       |
| 485   | Fothergilla sp.                               | PT |   | whit  |       | SH | 152 | CALL  | *         |
| 486   | Frasera speciosa                              | PT |   | gree  |       | TR | 250 | CARR  | E         |
| 487   | Freesia laxa                                  | PT |   | red   |       | BU | 25  | WRIG  | A 3 *     |
| 488   | Fritillaria imperialis                        | PT |   | oran  |       | BU | 120 | COOK  | ! H *     |
| 489   | Fritillaria raddeana                          | PT |   | crea  |       | BU | 60  | LEGG  | ! L *     |
| 490   | Gaillardia aristata                           | PT |   | red   |       | PE | 25  | HARV  | A         |
| 491   | Gaillardia aristata                           | PT |   | yell  | red   | PE | 45  | VARA  | A         |
| 492   | Gaillardia aristata                           | PT |   | yell  |       | PE | 45  | SAVA  | A         |
| 493   | Gaillardia grandiflora                        | PT |   | red   | yell  | PE | 90  | COOK  | A         |
| 494   | Gaillardia x grandiflora 'Arizona Red Shades' | PT |   | red   | yell  | PE | 25  | SHAW  | A         |
| 495   | Galega officinalis                            | PT |   | whit  |       | PE | 60  | HARV  | [X] A 3   |
| 496   | Gaura lindheimeri                             | PT |   | pink  | whit  | PE | 60  | WRIG  | A 2       |
| 497   | Genista tinctoria                             | PT |   | yell  |       | PE | 60  | LEVY  | A 1 6 7   |
| 498   | Gentiana acaulis                              | PT |   | blue  |       | PE | 5   | MERR  | D 4 *     |
| 499   | Gentiana acaulis 'Arctic Fanfare'             | PT |   | whit  |       | PE | 12  | MIDD  | D 4 *     |
| 500   | Gentiana alba                                 | PT |   | whit  |       | PE | 48  | HOWE  | A *       |
| 501   | Gentiana andrewsii                            | PT |   | blue  |       | PE | 40  | SHAW  | E 3 *     |
| 502   | Gentiana andrewsii                            | PT |   | pink  |       | PE | 30  | ALLA  | E 3 *     |
| 503   | Gentiana asclepiadea                          | PT |   | blue  |       | PE | 90  | LEVY  | A 3 4 *   |
| 504   | Gentiana asclepiadea                          | PT |   | blue  |       | PE | 60  | VANS  | A 3 4 *   |
| 505   | Gentiana clusii subsp. rochelii               | PT |   | purp  | gree  | PE | 15  | PETE  | D 4 *     |
| 506   | Gentiana cruciata                             | PT |   | blac  |       | PE | 40  | COOK  | ! B 3 5 * |
| 507   | Gentiana cruciata                             | PT |   | blue  |       | PE | 30  | TAYL  | ! B 3 5 * |
| 508   | Gentiana dahurica                             | PT |   | blue  |       | PE | 25  | SMIT  | L 3 4 *   |
| 509   | Gentiana depressa                             | PT |   | blue  | whit  | PE | 12  | MIDD  | L *       |
| 510   | Geranium maculatum                            | PT |   | pink  |       | PE | 35  | RICH  | L         |
| 511   | Geranium sanguineum                           | PT |   | rose  |       | PE | 40  | TAYL  | F 2       |
| 512   | Geranium sylvaticum                           | PT |   | blue  |       | PE | 70  | LEVY  | A         |
| 513   | Geranium thunbergii 'Jester's Jacket'         | PT |   | pink  |       | PE | 15  | BREL  | A         |
| 514   | Geum coccineum 'Koi'                          | PT |   | oran  |       | PE | 30  | GAGN  | A 3       |
| 515   | Geum coccineum 'Koi'                          | PT |   | oran  |       | PE | 30  | VANS  | A 3       |
| 516   | Geum macrophyllum                             | PT |   | yell  |       | PE | 30  | WALK  | A         |
| 517   | Geum rivale                                   | PT |   | brow  | oran  | PE | 70  | MIDD  | B 3       |
| 518   | Geum rivale                                   | PT |   | brow  | oran  | PE | 50  | MIDD  | B 3       |
| 519   | Geum rivale                                   | PT |   | rust  |       | PE | 20  | HOWE  | B 3       |
| 520   | Gillenia stipulata                            | PT |   | whit  |       | PE | 100 | LEEM  | E         |
| 521   | Gillenia trifoliata                           | PT |   | whit  |       | PE | 45  | SHAW  | F         |
| 522   | Gladiolus communis                            | PT |   | rose  |       | BU | 90  | STUA  | A         |
| 523   | Gladiolus imbricatus                          | PT |   | mage  |       | BU | 35  | SPUR  | L         |
| 524   | Gladiolus imbricatus                          | PT |   | pink  |       | BU | 80  | GREE  | L         |
| 525   | Gladiolus imbricatus                          | PT |   | rose  |       | BU | 90  | STUA  | L         |
| 526   | Glaucidium palmatum                           | PT |   | purp  |       | PE | 50  | CARR  | ! A 2 4   |
| 527   | Glaucidium palmatum                           | PT |   | whit  |       | PE | 50  | CARR  | ! A 2 4   |
| 528   | Glaucidium palmatum                           | PT |   | whit  |       | PE | 30  | TAYL  | ! A 2 4   |

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| Genus | Species or Hybrid  | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes     |
|-------|--|-----|-------|-------|----|-----|-------|-------------|
| 529   | Globularia cordifolia                                      | PT  | blue  |       | PE | 6   | HILD  | A 3         |
| 530   | Globularia cordifolia                                      | PT  | blue  |       | PE | 8   | MIDD  | A 3         |
| 531   | Globularia cordifolia                                      | PT  | whit  | pink  | PE | 10  | CHAR  | A 3         |
| 532   | Globularia incanescens                                     | PT  | lila  | blue  | PE | 10  | MIDD  | J           |
| 533   | Globularia meridionalis                                    | PT  | blue  |       | PE | 10  | TAYL  | A 3         |
| 534   | Globularia repens  | PT  | blue  |       | PE | 5   | ALLA  | A           |
| 535   | Globularia repens  | PT  | blue  |       | PE | 5   | TAYL  | A           |
| 536   | Globularia trichosantha                                    | PT  | lila  |       | PE | 20  | MIDD  | A           |
| 537   | Globularia vulgaris  | PT  | blue  |       | PE | 20  | VANS  | A           |
| 538   | Gypsophila cerastoides                                     | PT  | whit  | pink  | PE | 20  | ALLA  | A           |
| 539   | Gypsophila cerastoides                                     | PT  | whit  | pink  | PE | 10  | GREE  | A           |
| 540   | Gypsophila repens 'Filou Rose'                             | PT  | pink  |       | PE | 12  | TAYL  | A           |
| 541   | Gypsophila sericea   | PT  | whit  |       | PE | 15  | MERR  | ? Try J 3   |
| 542   | Haberlea rhodopensis                                       | PT  | purp  |       | PE | 8   | MERR  | A *         |
| 543   | Haberlea rhodopensis                                       | PT  | rose  |       | PE | 15  | SHAW  | A *         |
| 544   | Haberlea sp.   | PT  | purp  |       | PE | 30  | ALLA  | A           |
| 545   | Habranthus tubispathus                                     | PT  | pink  |       | BU | 40  | HOWE  | A           |
| 546   | Halesia tetraptera 'Silver Splash'                         | PT  | whit  |       | TR | 400 | LEEM  | C           |
| 547   | Hamamelis virginiana "                                     | PT  | yell  |       | TR | 400 | CAME  | D           |
| 548   | Helenium autumnale   | PT  | red   |       | PE | 60  | RICH  | B           |
| 549   | Helenium autumnale   | PT  | yell  | red   | PE | 80  | HARV  | B           |
| 550   | Helianthemum nummularium                                   | PT  | yell  |       | PE | 25  | CLAR  | D           |
| 551   | Helianthemum sp.   | PT  | yell  |       | PE | 4   | HILD  | [X] A       |
| 552   | Helianthus annuus 'Russian Giant'                          | PT  | yell  |       | AN | 210 | COOK  | [X] A       |
| 553   | Helianthus giganteus                                       | PT  | yell  |       | PE | 300 | COOK  | J           |
| 554   | Helianthus maximiliani                                     | PT  | yell  |       | PE | 300 | COOK  | L           |
| 555   | Heliopsis helianthoides                                    | PT  | yell  | oran  | PE | 60  | MIDD  | A           |
| 556   | Heliopsis helianthoides                                    | PT  | yell  |       | PE | 150 | COOK  | A           |
| 557   | Heliopsis helianthoides var. scabra 'Bressingham Doubloon' | PT  | yell  |       | PE | 120 | SHAW  | A           |
| 558   | Heliopsis helianthoides var. scabra 'Burning Hearts'       | PT  | yell  | oran  | PE | 110 | LEEM  | A           |
| 559   | Heliotropium arborescens                                   | PT  | purp  |       | AN | 30  | HARV  | A           |
| 560   | Hemerocallis cv.   | PT  | pink  |       | PE | 40  | ALLA  | J           |
| 561   | Hemerocallis 'Happy Returns'                               | PT  | yell  |       | PE | 25  | TAYL  | A           |
| 562   | Hemerocallis middendorffii                                 | PT  | yell  |       | PE | 60  | MIDD  | F           |
| 563   | Hemerocallis Stella de Oro'                                | PT  | gold  |       | PE | 30  | HARV  | A           |
| 564   | Heuchera villosa   | PT  | yell  |       | PE | 40  | MURP  | A           |
| 565   | Hibiscus moscheutos  | PT  | pink  | whit  | PE | 210 | MART  | [X] ! A 6 7 |
| 566   | Hibiscus moscheutos 'Cranberry Crush'                      | PT  | red   |       | PE | 122 | CALL  | [X] ! A 6 7 |
| 567   | Hibiscus moscheutos 'Peppermint Schnapps'                  | PT  | pink  |       | SH | 100 | SHAW  | [X] ! A 6 7 |
| 568   | Hibiscus moscheutos Southern Belle Group                   | PT  | red   |       | SH | 90  | SHAW  | [X] ! A 6 7 |
| 569   | Hibiscus sabdariffa  | PT  | whit  | red   | AN | 150 | SHAW  | [X] ! A 6 7 |
| 570   | Hibiscus trionum   | PT  | crea  |       | AN | 40  | BREL  | [X] A 2 6 7 |
| 571   | Hormathophylla spinosa                                     | PT  | whit  |       | PE | 30  | SHAW  | A 3         |
| 572   | Hyacinthoides cedretorum                                   | PT  | lila  |       | BU | 25  | MIDD  | G 7         |
| 573   | Hylotelephium maximum                                      | PT  | crea  |       | PE | 50  | SHAW  | A 3         |
| 574   | Hymenoxys grandiflora                                      | PT  | yell  |       | PE | 15  | CLAR  | A           |
| 575   | Hypericum ascyron  | PT  | yell  |       | PE | 120 | COOK  | E 3         |
| 576   | Hypericum kalmianum  | PT  | yell  |       | SH | 90  | SHAW  | L           |
| 577   | Hypericum perforatum                                       | PT  | yell  |       | PE | 30  | BREL  | K           |
| 578   | Hypericum perforatum                                       | PT  | yell  |       | PE | 60  | SAVA  | K           |
| 579   | Iberis aousica subsp. nana                                 | PT  | lilac | pink  | PE | 10  | MIDD  | A           |
| 580   | Iberis gibraltarica 'Chill Lavender'                       | PT  | lave  |       | PE | 20  | TAYL  | A 3         |
| 581   | Iliamna remota   | PT  | pink  |       | PE | 120 | SPUR  | A 6 *       |
| 582   | Incarvillea delavayi                                       | PT  | pink  |       | PE | 12  | MERR  | A           |
| 583   | Inula magnifica  | PT  | oran  |       | PE | 100 | MIDD  | A           |
| 584   | Inula racemosa   | PT  | yell  |       | PE | 200 | KERR  | A           |
| 585   | Inula sp.  | PT  | yell  |       | PE | 30  | HOOG  | A           |
| 586   | Ipomoea purpurea 'Grandpa Otts'                            | PT  | purp  |       | VI | 200 | SHAW  | A 6 7       |
| 587   | Ipomoea purpurea 'Split Second'                            | PT  | pink  | whit  | AN | 150 | BREL  | A 6 7       |
| 588   | Ipomoea quamoclit  | PT  | red   |       | AN | 240 | COOK  | A 6 7       |
| 589   | Ipomopsis aggregata  | PT  | red   |       | BI | 114 | BOTI  | A 1         |
| 590   | Ipomopsis rubra  | PT  | red   |       | BI | 120 | COOK  | A 1         |
| 591   | Ipomopsis rubra  | PT  | red   |       | BI | 100 | MURP  | A 1         |
| 592   | Iris 'Black Gamecock'                                      | PT  | purp  | gold  | PE | 30  | TAYL  | A *         |
| 593   | Iris 'Black Gamecock'                                      | PT  | purp  | yell  | PE | 50  | WELS  | A *         |
| 594   | Iris dichotoma   | PT  | blue  |       | PE | 75  | WRIG  | A 7 *       |



# ORG&HPS Seed Exchange 2022 - 2023

| Genus | Species or Hybrid                    | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes         |
|-------|--------------------------------------|-----|-------|-------|----|-----|-------|-----------------|
| 595   | Iris domestica                       | PT  | gold  | blac  | PE | 120 | WIRE  | A 3             |
| 596   | Iris domestica                       | PT  | oran  | red   | PE | 30  | COOK  | A 3             |
| 597   | Iris domestica                       | PT  | oran  |       | PE | 45  | HOOG  | A 3             |
| 598   | Iris hookeri                         | PT  | lila  |       | PE | 20  | MIDD  | L 7 *           |
| 599   | Iris setosa                          | PT  | blue  |       | PE | 20  | CLAR  | L 7 *           |
| 600   | Iris setosa                          | PT  | purp  | whit  | PE | 30  | BREL  | L 7 *           |
| 601   | Iris spuria                          | PT  | yell  |       | PE | 100 | LIGH  | E 7 *           |
| 602   | Iris tectorum                        | PT  | blue  |       | PE | 20  | CLAR  | A 3 7 *         |
| 603   | Iris versicolor                      | PT  | blue  |       | PE | 90  | LIGH  | A 3 *           |
| 604   | Iris versicolor                      | PT  | purp  |       | PE | 100 | KERR  | A 3 *           |
| 605   | Ixiolirion tataricum                 | PT  | blue  |       | BU | 25  | BOTI  | F               |
| 606   | Ixiolirion tataricum                 | PT  | blue  |       | BU | 15  | MIDD  | F               |
| 607   | Kitaibela vitifolia                  | PT  | crea  |       | PE | 150 | WALK  | A 2 6           |
| 608   | Kitaibela vitifolia                  | PT  | whit  | pink  | PE | 100 | LIGH  | A 2 6           |
| 609   | Kitaibela vitifolia                  | PT  | whit  |       | PE | 120 | GAGN  | A 2 6           |
| 610   | Knautia macedonica                   | PT  | burg  |       | PE | 90  | COOK  | A 3             |
| 611   | Knautia macedonica                   | PT  | burg  |       | PE | 45  | SAVA  | A 3             |
| 612   | Koeleria glauca                      | PT  | beig  |       | PE | 25  | GREE  | B               |
| 613   | Lablab purpureus                     | PT  | purp  |       | AN | 100 | BREL  | A N             |
| 614   | Lagerstroemia indica 'Bellini Grape' | PT  | rose  | yell  | SH | 70  | TAYL  | A               |
| 615   | Laserpitium sp.                      | PT  | whit  |       | PE | 80  | CARR  | E               |
| 616   | Lathyrus latifolius                  | PT  | pink  |       | VI | 180 | COOK  | [X] A 1 2 6 7 * |
| 617   | Lathyrus latifolius                  | PT  | pink  |       | VI | 150 | HOOG  | [X] A 1 2 6 7 * |
| 618   | Lathyrus odoratus                    | PT  | whit  | pink  | AN | 150 | LEGG  | [X] A 1 2 6 7 * |
| 619   | Lathyrus vernus                      | PT  | lila  |       | PE | 40  | SHAW  | [X] F 1 6 7 *   |
| 620   | Lathyrus vernus                      | PT  | pink  | blue  | PE | 30  | TAYL  | [X] F 1 6 7 *   |
| 621   | Lathyrus vernus                      | PT  | purp  |       | PE | 35  | COST  | [X] F 1 6 7 *   |
| 622   | Lathyrus vernus 'Rainbow'            | PT  | pink  | whit  | PE | 40  | RICH  | [X] F 1 6 7 *   |
| 623   | Leibnitzia anandria                  | PT  | yell  |       | PE | 25  | SHAW  | A               |
| 624   | Leptodermis oblonga                  | PT  | pink  |       | SH | 50  | TAYL  | A 4             |
| 625   | Leucanthemum x superbum              | PT  | whit  | yell  | PE | 60  | WELS  | A               |
| 626   | Levisticum officinale                | PT  | whit  |       | PE | 180 | SAVA  | A               |
| 627   | Levisticum officinale                | PT  | yell  |       | PE | 120 | COOK  | A               |
| 628   | Lewisia cotyledon                    | PT  | mix   |       | PE | 25  | LEVY  | J               |
| 629   | Liatris aspera                       | PT  | purp  |       | PE | 120 | COOK  | J               |
| 630   | Liatris ligulistylis                 | PT  | pink  |       | PE | 150 | LEEM  | J               |
| 631   | Liatris ligulistylis                 | PT  | pink  |       | PE | 40  | VAXV  | J               |
| 632   | Liatris ligulistylis                 | PT  | purp  |       | PE | 120 | COOK  | J               |
| 633   | Liatris ligulistylis                 | PT  | purp  |       | PE | 150 | MIZY  | J               |
| 634   | Liatris pycnostachya                 | PT  | purp  |       | PE | 120 | DOLB  | A               |
| 635   | Liatris spicata                      | PT  | purp  |       | PE | 50  | BREL  | A               |
| 636   | Liatris spicata                      | PT  | purp  |       | PE | 120 | COOK  | A               |
| 637   | Liatris spicata                      | PT  | purp  |       | PE | 60  | RICH  | A               |
| 638   | Liatris spicata                      | PT  | purp  |       | PE | 45  | SHAW  | A               |
| 639   | Liatris spicata 'Floristan Weiss'    | PT  | whit  |       | PE | 60  | SHAW  | A               |
| 640   | Ligularia dentata                    | PT  | gold  |       | PE | 120 | COOK  | [X] A           |
| 641   | Ligularia dentata                    | PT  | gold  |       | PE | 50  | HEND  | [X] A           |
| 642   | Ligularia dentata 'Desdemona'        | PT  | yell  |       | PE | 45  | SHAW  | [X] A           |
| 643   | Lilium canadense                     | PT  | oran  |       | BU | 120 | CAME  | B *             |
| 644   | Lilium canadense                     | PT  | oran  |       | BU | 120 | CARR  | B *             |
| 645   | Lilium martagon                      | PT  | mix   |       | BU | 100 | CARR  | C               |
| 646   | Lilium martagon                      | PT  | pink  |       | BU | 100 | LIGH  | C               |
| 647   | Lilium martagon                      | PT  | whit  |       | BU | 100 | LIGH  | C               |
| 648   | Lilium martagon 'Golden Morning'     | PT  | yell  |       | BU | 100 | CAME  | C               |
| 649   | Lilium michiganense <sup>w</sup>     | PT  | oran  |       | BU | 120 | COST  | B *             |
| 650   | Lilium pensylvanicum                 | PT  | oran  |       | BU | 45  | CAME  | B *             |
| 651   | Lilium pumilum                       | PT  | red   |       | PE | 60  | ALLA  | A               |
| 652   | Lilium pumilum                       | PT  | red   |       | BU | 45  | WALK  | A               |
| 653   | Lilium regale                        | PT  | whit  | pink  | BU | 100 | LIGH  | A               |
| 654   | Linum flavum                         | PT  | yell  |       | PE | 30  | CLAR  | A               |
| 655   | Linum flavum                         | PT  | yell  |       | PE | 30  | DOLB  | A               |
| 656   | Linum grandiflorum                   | PT  | peac  |       | AN | 80  | BEAU  | A N             |
| 657   | Lobelia cardinalis                   | PT  | red   |       | PE | 120 | COOK  | A 3             |
| 658   | Lobelia siphilitica                  | PT  | blue  |       | PE | 120 | COOK  | A 3             |
| 659   | Lobelia siphilitica                  | PT  | blue  |       | PE | 60  | WELS  | A 3             |
| 660   | Lobelia siphilitica                  | PT  | purp  |       | PE | 90  | ALLA  | A 3             |



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| Genus | Species or Hybrid | P                               | T  | Col-1 | Col-2 | Tp | Ht   | Donor | G.Codes    |
|-------|-------------------|---------------------------------|----|-------|-------|----|------|-------|------------|
| 661   | Lobelia           | siphilitica f. albiflora 'Alba' | PT | whit  |       | PE | 60   | GREE  | A 3        |
| 662   | Lophospermum      | erubescens                      | PT | pink  |       | VI | 150  | SAVA  | A          |
| 663   | Lotus             | corniculatus                    | PT | yell  |       | PE | 10   | WALK  | [X] A 7    |
| 664   | Lunaria           | annua                           | PT | purp  |       | BI | 70   | CAME  | A          |
| 665   | Lupinus           | latifolius                      | PT | purp  |       | PE | 80   | CARR  | A 1 6 7    |
| 666   | Lupinus           | perennis                        | PT | blue  |       | PE | 45   | SHAW  | B 1 6 7    |
| 667   | Lupinus           | perennis                        | PT | blue  |       | BI | 90   | TAYL  | B 1 6 7    |
| 668   | Lupinus           | polyphyllus                     | PT | pink  |       | PE | 90   | ALLA  | A 1 6 7    |
| 669   | Lupinus           | polyphyllus                     | PT | pink  |       | PE | 60   | PETT  | A 1 6 7    |
| 670   | Lupinus           | Russell Group                   | PT | pink  |       | PE | 60   | COST  | A 1 6 7    |
| 671   | Lupinus           | sp.                             | PT | mix   |       | PE | 50   | VANS  | [X] A 6 7  |
| 672   | Maclura           | pomifera                        | PT |       |       | TR | 1500 | MART  | A 8 *      |
| 673   | Malva             | alcea                           | PT | pink  |       | PE | 120  | COOK  | A          |
| 674   | Malva             | cachemiriana                    | PT | pink  |       | PE | 100  | CARR  | A          |
| 675   | Malva             | moschata                        | PT | pink  |       | PE | 50   | WALK  | A          |
| 676   | Malva             | moschata                        | PT | whit  |       | PE | 25   | HILD  | A          |
| 677   | Malva             | moschata var. alba              | PT | whit  |       | PE | 90   | SAVA  | A          |
| 678   | Maurandya         | scandens                        | PT | blue  |       | VI | 150  | SAVA  | A          |
| 679   | Melandrium        | keiskei                         | PT | pink  |       | PE | 15   | MIDD  | A          |
| 680   | Melica            | uniflora                        | PT | crea  |       | PE | 30   | COST  | E          |
| 681   | Melinis           | nerviglumis 'Savannah'          | PT | pink  |       | AN | 60   | GAGN  | A          |
| 682   | Menispermum       | canadense                       | PT | yell  |       | VI | 500  | CARR  | J          |
| 683   | Mertensia         | maritima                        | PT | blue  |       | PE | 20   | BREL  | J          |
| 684   | Mimulus           | cardinalis                      | PT | red   |       | AN | 20   | MURP  | A          |
| 685   | Minuartia         | saxifraga                       | PT | whit  |       | PE | 3    | HILD  | ?          |
| 686   | Mirabilis         | jalapa                          | PT | mix   |       | AN | 35   | LEGG  | A          |
| 687   | Mirabilis         | jalapa                          | PT | red   |       | AN | 60   | COOK  | A          |
| 688   | Mirabilis         | jalapa                          | PT | whit  |       | AN | 60   | COOK  | A          |
| 689   | Molopospermum     | peloponnesiacum                 | PT | whit  |       | PE | 180  | CARR  | C 2        |
| 690   | Monarda           | didyma                          | PT | red   |       | PE | 120  | COOK  | A          |
| 691   | Monarda           | fistulosa                       | PT | pink  |       | PE | 120  | COOK  | A 3        |
| 692   | Monarda           | fistulosa <sup>w</sup>          | PT | pink  |       | PE | 70   | MIDD  | A 3        |
| 693   | Monarda           | fistulosa                       | PT | pink  |       | PE | 90   | SHAW  | A 3        |
| 694   | Monarda           | fistulosa                       | PT | purp  |       | PE | 100  | DOLB  | A 3        |
| 695   | Morina            | longifolia                      | PT | whit  | pink  | PE | 75   | GREE  | A          |
| 696   | Muscari           | botryoides                      | PT | blue  |       | BU | 15   | WALK  | L *        |
| 697   | Myrrhis           | odorata                         | PT | whit  |       | PE | 100  | CARR  | ! L N      |
| 698   | Myrrhis           | odorata                         | PT | whit  |       | PE | 75   | CHAR  | ! L N      |
| 699   | Myrrhis           | odorata                         | PT | whit  |       | PE | 40   | HEND  | ! L N      |
| 700   | Nicotiana         | alata                           | PT | whit  |       | AN | 80   | BEAU  | A 3        |
| 701   | Nicotiana         | langsdorffii                    | PT | gree  |       | AN | 80   | BEAU  | A          |
| 702   | Nicotiana         | sylvestris                      | PT | whit  |       | AN | 150  | BEAU  | A 3        |
| 703   | Nicotiana         | sylvestris                      | PT | whit  |       | AN | 100  | HARV  | A 3        |
| 704   | Nicotiana         | tabacum                         | PT | pink  | whit  | AN | 300  | KERR  | [X] A      |
| 705   | Nicotiana         | x 'Starlight Dancer'            | PT | whit  |       | AN | 90   | BEAU  | A          |
| 706   | Nicotiana         | x 'Starlight Dancer'            | PT | whit  |       | AN | 80   | SMIT  | A          |
| 707   | Nigella           | damascena                       | PT | blue  |       | AN | 10   | HILD  | A 2        |
| 708   | Nigella           | damascena                       | PT | blue  |       | AN | 25   | LIGH  | A 2        |
| 709   | Nigella           | damascena 'Miss Jekyll'         | PT | blue  | whit  | AN | 20   | BEAU  | A 2        |
| 710   | Noccaea           | fendleri subsp. glauca          | PT | pink  |       | PE | 20   | COST  | [X] B      |
| 711   | Noccaea           | oppositifolia                   | PT | pink  |       | PE | 5    | GREE  | A          |
| 712   | Noccaea           | rotundifolia                    | PT | pink  |       | PE | 8    | HOWE  | A          |
| 713   | Noccaea           | rotundifolia                    | PT | pink  |       | PE | 3    | TAYL  | A          |
| 714   | Noccaea           | rotundifolia                    | PT | purp  |       | PE | 5    | MERR  | A          |
| 715   | Noccaea           | vesicaria                       | PT | whit  |       | PE | 10   | BOTI  | A          |
| 716   | Noccaea           | zaffranii                       | PT | purp  |       | PE | 8    | CLAR  | A          |
| 717   | Ocimum            | basilicum                       | PT | purp  | whit  | AN | 30   | HARV  | *          |
| 718   | Ocimum            | sp.                             | PT | whit  |       | AN | 60   | PETT  | ? Try A    |
| 719   | Oenothera         | biennis                         | PT | yell  |       | BI | 150  | COOK  | A 3        |
| 720   | Oenothera         | biennis                         | PT | yell  |       | BI | 100  | HARV  | A 3        |
| 721   | Oenothera         | biennis                         | PT | yell  |       | BI | 120  | SHAW  | A 3        |
| 722   | Onobrychis        | vicifolia                       | PT | pink  |       | PE | 90   | COOK  | [X] K N 7  |
| 723   | Onopordum         | acanthium                       | PT | purp  |       | BI | 250  | COOK  | A 5 or L * |
| 724   | Origanum          | vulgare subsp. hirtum           | PT | whit  |       | PE | 90   | COOK  | A          |
| 725   | Orlaya            | grandiflora                     | PT | whit  |       | AN | 45   | COST  | A          |
| 726   | Ornithogalum      | candicans                       | PT | whit  |       | BU | 90   | MIDD  | ! A 2      |

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| Genus | Species or Hybrid                       | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes |
|-------|---|-----|-------|-------|----|-----|-------|---------|
| 727   | Ornithogalum candicans                  | PT  | whit  |       | BU | 120 | WALK  | ! A 2   |
| 728   | Ornithogalum princeps                   | PT  | whit  |       | BU | 100 | GLEN  | A       |
| 729   | Ornithogalum viridiflorum               | PT  | whit  | gree  | BU | 120 | GLEN  | B       |
| 730   | Orostachys malacophylla var. iwarenge   | PT  | pink  |       | PE | 25  | TAYL  | A       |
| 731   | Osteospermum sp.                        | PT  | oran  |       | AN | 15  | TAYL  | ? Try A |
| 732   | Oxypetalum coeruleum                    | PT  | blue  |       | VI | 80  | YATE  | A       |
| 733   | Oxytropis ruthenica                     | PT  | purp  |       | PE | 10  | BREL  | A 6 7 * |
| 734   | Packera aurea                           | PT  | yell  |       | PE | 30  | GREE  | A 3     |
| 735   | Paeonia 'Adrienne Clarkson'             | PT  | crea  |       | PE | 120 | COOK  | *       |
| 736   | Paeonia 'Blushing Princess'             | PT  | pink  |       | PE | 80  | COOK  | *       |
| 737   | Paeonia daurica subsp. mlokosewitschii  | PT  | yell  |       | PE | 60  | COOK  | *       |
| 738   | Paeonia daurica subsp. mlokosewitschii  | PT  | yell  |       | SH | 40  | HILD  | *       |
| 739   | Paeonia officinalis                     | PT  | pink  |       | PE | 50  | COST  | *       |
| 740   | Paeonia ostii                           | PT  | whit  |       | PE | 150 | CARR  | *       |
| 741   | Paeonia rockii                          | PT  | whit  | purp  | SH | 120 | LEGG  | *       |
| 742   | Paeonia rockii                          | PT  | pink  | purp  | SH | 125 | LEGG  | *       |
| 743   | Paeonia suffruticosa                    | PT  | mix   |       | SH | 100 | HOOG  | *       |
| 744   | Paeonia suffruticosa                    | PT  | pink  |       | PE | 100 | CHAR  | *       |
| 745   | Paeonia suffruticosa                    | PT  | pink  |       | SH | 125 | LEGG  | *       |
| 746   | Paeonia tenuifolia                      | PT  | red   |       | PE | 45  | GREE  | G *     |
| 747   | Paeonia tenuifolia                      | PT  | red   |       | PE | 50  | MIDD  | G *     |
| 748   | Paeonia tenuifolia                      | PT  | red   |       | PE | 50  | WELS  | G *     |
| 749   | Panicum virgatum                        | PT  | brow  |       | PE | 180 | COOK  | [X] A   |
| 750   | Papaver alpinum                         | PT  | oran  | yell  | PE | 15  | CLAR  | A 3     |
| 751   | Papaver atlanticum                      | PT  | oran  |       | PE | 15  | HILD  | A       |
| 752   | Papaver atlanticum                      | PT  | oran  |       | PE | 30  | TAYL  | A       |
| 753   | Papaver atlanticum                      | PT  | oran  |       | PE | 30  | WALK  | A       |
| 754   | Papaver atlanticum                      | PT  | oran  |       | PE | 60  | WRIG  | A       |
| 755   | Papaver atlanticum 'Flore Pleno'        | PT  | oran  |       | PE | 60  | ALLA  | A       |
| 756   | Papaver atlanticum 'Flore Pleno'        | PT  | oran  |       | PE | 30  | BEAU  | A       |
| 757   | Papaver cambricum                       | PT  | oran  |       | AN | 15  | HILD  | ! C *   |
| 758   | Papaver cambricum                       | PT  | yell  | oran  | AN | 25  | MIDD  | ! C *   |
| 759   | Papaver cambricum                       | PT  | yell  |       | AN | 20  | MERR  | ! C *   |
| 760   | Papaver chakassicum                     | PT  | yell  |       | PE | 15  | CLAR  | A       |
| 761   | Papaver orientale                       | PT  | red   |       | PE | 60  | VARA  | A       |
| 762   | Papaver rhoeas                          | PT  | peac  |       | AN | 60  | BEAU  | A       |
| 763   | Papaver rhoeas                          | PT  | red   |       | AN | 60  | BEAU  | A       |
| 764   | Papaver rhoeas                          | PT  | red   |       | AN | 25  | YATE  | A       |
| 765   | Papaver rhoeas                          | PT  | rose  |       | AN | 60  | BEAU  | A       |
| 766   | Papaver rhoeas 'Amazing Grey'           | PT  | lila  | mix   | AN | 45  | PALM  | A       |
| 767   | Papaver rhoeas 'Amazing Grey'           | PT  | silv  |       | AN | 25  | YATE  | A       |
| 768   | Papaver rupifragum 'Tangerine Gem'      | PT  | oran  |       | PE | 45  | SMIT  | A       |
| 769   | Papaver somniferum                      | PT  | burg  |       | AN | 60  | RICH  | [X] A   |
| 770   | Papaver somniferum                      | PT  | lila  |       | AN | 40  | BEAU  | [X] A   |
| 771   | Papaver somniferum                      | PT  | mauv  |       | AN | 60  | RICH  | [X] A   |
| 772   | Papaver somniferum                      | PT  | purp  |       | AN | 60  | BEAU  | [X] A   |
| 773   | Papaver somniferum                      | PT  | purp  |       | AN | 35  | CLAR  | [X] A   |
| 774   | Papaver somniferum                      | PT  | purp  |       | AN | 25  | HILD  | [X] A   |
| 775   | Papaver somniferum                      | PT  | purp  |       | AN | 60  | RICH  | [X] A   |
| 776   | Papaver somniferum                      | PT  | red   | whit  | AN | 35  | YATE  | [X] A   |
| 777   | Papaver somniferum                      | PT  | red   |       | AN | 45  | PALM  | [X] A   |
| 778   | Papaver somniferum                      | PT  | red   |       | AN | 100 | TAYL  | [X] A   |
| 779   | Papaver somniferum                      | PT  | whit  |       | AN | 35  | YATE  | [X] A   |
| 780   | Papaver somniferum double               | PT  | pink  |       | AN | 35  | YATE  | [X] A   |
| 781   | Papaver somniferum double               | PT  | red   |       | AN | 35  | YATE  | [X] A   |
| 782   | Papaver somniferum 'Lauren's Grape'     | PT  | purp  | plum  | AN | 70  | MIDD  | [X] A   |
| 783   | Papaver somniferum 'Lauren's Grape'     | PT  | purp  | purp  | AN | 70  | MIDD  | [X] A   |
| 784   | Papaver somniferum 'Lauren's Grape'     | PT  | purp  |       | AN | 122 | CALL  | [X] A   |
| 785   | Papaver somniferum 'Sissinghurst White' | PT  | whit  |       | AN | 60  | CAME  | [X] A   |
| 786   | Papaver sp.                             | PT  | oran  |       | AN | 70  | PETT  | [X] G   |
| 787   | Papaver sp.                             | PT  | oran  |       | AN | 60  | SAVA  | [X] G   |
| 788   | Paradisea liliastrum                    | PT  | whit  |       | PE | 30  | CLAR  | L       |
| 789   | Paradisea lusitanica                    | PT  | whit  |       | PE | 30  | CLAR  | L       |
| 790   | Parthenium integrifolium                | PT  | whit  |       | PE | 60  | SPUR  | H       |
| 791   | Patrinia scabiosifolia                  | PT  | yell  |       | PE | 50  | CARR  | ? Try A |
| 792   | Penstemon caespitosus                   | PT  | lave  |       | PE | 30  | BREL  | A       |

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| Genus | Species or Hybrid                         | P  | T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes |
|-------|---|----|---|-------|-------|----|-----|-------|---------|
| 793   | Penstemon calycosus                       | PT |   | rose  |       | PE | 60  | EICH  | J       |
| 794   | Penstemon cobaea                          | PT |   | purp  | whit  | PE | 30  | MIDD  | A       |
| 795   | Penstemon 'Dark Towers'                   | PT |   | pink  |       | PE | 75  | TAYL  | A       |
| 796   | Penstemon davidsonii var. menziesii       | PT |   | lila  |       | PE | 15  | ALLA  | A       |
| 797   | Penstemon digitalis                       | PT |   | whit  | mauv  | PE | 90  | LEVY  | A 3     |
| 798   | Penstemon digitalis                       | PT |   | whit  | purp  | PE | 60  | VARA  | A 3     |
| 799   | Penstemon digitalis                       | PT |   | whit  |       | PE | 100 | BEAU  | A 3     |
| 800   | Penstemon digitalis                       | PT |   | whit  |       | PE | 90  | COOK  | A 3     |
| 801   | Penstemon digitalis 'Husker Red'          | PT |   | whit  |       | PE | 70  | SHAW  | J       |
| 802   | Penstemon fruticosus                      | PT |   | lila  |       | PE | 20  | ALLA  | H       |
| 803   | Penstemon grandiflorus 'Prairie Jewel'    | PT |   | mix   |       | PE | 75  | GREE  | F       |
| 804   | Penstemon hallii                          | PT |   | blue  |       | PE | 15  | VAXV  | A       |
| 805   | Penstemon hirsutus                        | PT |   | lave  |       | PE | 60  | COOK  | G 3     |
| 806   | Penstemon hirsutus                        | PT |   | whit  | pink  | PE | 25  | CLAR  | G 3     |
| 807   | Penstemon hirsutus                        | PT |   | whit  |       | PE | 60  | LEVY  | G 3     |
| 808   | Penstemon hirsutus 'Blue Foam'            | PT |   | lila  | whit  | PE | 30  | ALLA  | G 3     |
| 809   | Penstemon hirsutus var. pygmaeus          | PT |   | blue  | whit  | PE | 10  | STUA  | A 3     |
| 810   | Penstemon hirsutus var. pygmaeus          | PT |   | lave  |       | PE | 15  | COSE  | A 3     |
| 811   | Penstemon hirsutus var. pygmaeus          | PT |   | pink  |       | PE | 16  | ALLA  | A 3     |
| 812   | Penstemon hirsutus var. pygmaeus f. albus | PT |   | whit  |       | PE | 10  | MIDD  | A 3     |
| 813   | Penstemon newberryi                       | PT |   | pink  |       | PE | 30  | TAYL  | A       |
| 814   | Penstemon nitidus                         | PT |   | blue  |       | PE | 25  | VAXV  | J       |
| 815   | Penstemon 'Prairie Dusk'                  | PT |   | lila  |       | PE | 50  | HEND  | A       |
| 816   | Penstemon procerus                        | PT |   | purp  |       | PE | 15  | MURP  | G       |
| 817   | Penstemon procerus var. tolmiei           | PT |   | purp  |       | PE | 20  | MIDD  | A       |
| 818   | Penstemon sp.                             | PT |   | whit  | lila  | PE | 30  | MIDD  | [X] G 3 |
| 819   | Penstemon spatulatus                      | PT |   | pink  | blue  | PE | 20  | ALLA  | G       |
| 820   | Penstemon spatulatus 'Wallowa Mts'        | PT |   | blue  |       | PE | 10  | TAYL  | G       |
| 821   | Pentanema ensifolium                      | PT |   | yell  |       | PE | 20  | DOLB  | A       |
| 822   | Pentanema ensifolium                      | PT |   | yell  |       | PE | 25  | TAYL  | A       |
| 823   | Penthorum sedoides                        | PT |   | gree  | pink  | PE | 30  | MURP  | L 3 *   |
| 824   | Persicaria orientalis                     | PT |   | pink  |       | AN | 180 | COOK  | A *     |
| 825   | Persicaria orientalis                     | PT |   | pink  |       | AN | 182 | SMIT  | A *     |
| 826   | Persicaria polymorpha                     | PT |   | whit  |       | PE | 100 | BEAU  | J       |
| 827   | Petunia exserta                           | PT |   | red   |       | AN | 45  | CAME  | A       |
| 828   | Peucedanum verticillare                   | PT |   | whit  |       | PE | 200 | HARV  | E       |
| 829   | Phedimus kamtschaticus                    | PT |   | yell  |       | PE | 20  | LIGH  | A       |
| 830   | Phlomoides tuberosa                       | PT |   | lave  |       | PE | 90  | SHAW  | A       |
| 831   | Phlomoides tuberosa                       | PT |   | lila  |       | PE | 80  | MIDD  | A       |
| 832   | Phlomoides tuberosa                       | PT |   | pink  |       | PE | 150 | CARR  | A       |
| 833   | Phlomoides tuberosa                       | PT |   | pink  |       | PE | 150 | MIZY  | A       |
| 834   | Phlomoides tuberosa                       | PT |   | pink  |       | PE | 90  | SAVA  | A       |
| 835   | Phlox paniculata                          | PT |   | pink  |       | PE | 60  | SHAW  | J       |
| 836   | Phlox paniculata 'David'                  | PT |   | whit  |       | PE | 75  | TAYL  | J       |
| 837   | Physaria kingii                           | PT |   | yell  |       | PE | 25  | CHAR  | A       |
| 838   | Physaria kingii                           | PT |   | yell  |       | PE | 6   | HILD  | A       |
| 839   | Physaria sp.                              | PT |   | yell  |       | PE | 20  | ALLA  | A 3     |
| 840   | Physochlaina orientalis                   | PT |   | lila  | red   | PE | 30  | MIDD  | F       |
| 841   | Physochlaina orientalis                   | PT |   | mauv  |       | PE | 20  | HOWE  | F       |
| 842   | Physochlaina orientalis                   | PT |   | purp  |       | PE | 25  | CLAR  | F       |
| 843   | Physochlaina praealta                     | PT |   | purp  |       | PE | 30  | BREL  | ? Try F |
| 844   | Physoplexis comosa                        | PT |   | mauv  | purp  | PE | 20  | VANS  | A 2 5   |
| 845   | Physostegia virginiana                    | PT |   | pink  |       | PE | 90  | TAYL  | A       |
| 846   | Phyteuma charmelii                        | PT |   | blue  |       | PE | 20  | ALLA  | A       |
| 847   | Phyteuma confusum                         | PT |   | blue  |       | PE | 15  | ALLA  | A 3     |
| 848   | Phyteuma nigrum                           | PT |   | purp  |       | PE | 8   | HILD  | A       |
| 849   | Phyteuma scheuchzeri                      | PT |   | blue  |       | PE | 20  | CLAR  | A       |
| 850   | Phyteuma scheuchzeri                      | PT |   | blue  |       | PE | 8   | HILD  | A       |
| 851   | Phyteuma scheuchzeri                      | PT |   | blue  |       | PE | 30  | HOWE  | A       |
| 852   | Phyteuma scheuchzeri                      | PT |   | blue  |       | PE | 30  | VANS  | A       |
| 853   | Phyteuma scheuchzeri                      | PT |   | purp  |       | PE | 20  | WALK  | A       |
| 854   | Phyteuma sieberi                          | PT |   | blue  |       | PE | 20  | ALLA  | A       |
| 855   | Phyteuma sieberi                          | PT |   | blue  |       | PE | 20  | SHAW  | A       |
| 856   | Phytolacca americana 'Silberstein'        | PT |   | pink  |       | PE | 300 | CARR  | G 8 *   |
| 857   | Pilosella officinarum                     | PT |   | yell  |       | PE | 15  | ALLA  | A       |
| 858   | Pimpinella major 'Rosea'                  | PT |   | pink  |       | PE | 20  | MERR  | ! J     |

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| Genus | Species or Hybrid | P T | Col-1 | Col-2 | Tp | Ht | Donor | G.Codes |
|-------|-------------------|-----|-------|-------|----|----|-------|---------|
| 859   | Pinus             |     |       |       |    |    |       |         |
| 860   | Platycodon        |     |       |       |    |    |       |         |
| 861   | Platycodon        |     |       |       |    |    |       |         |
| 862   | Platycodon        |     |       |       |    |    |       |         |
| 863   | Platycodon        |     |       |       |    |    |       |         |
| 864   | Platycodon        |     |       |       |    |    |       |         |
| 865   | Platycodon        |     |       |       |    |    |       |         |
| 866   | Platycodon        |     |       |       |    |    |       |         |
| 867   | Platycodon        |     |       |       |    |    |       |         |
| 868   | Platycodon        |     |       |       |    |    |       |         |
| 869   | Platycodon        |     |       |       |    |    |       |         |
| 870   | Platycodon        |     |       |       |    |    |       |         |
| 871   | Podophyllum       |     |       |       |    |    |       |         |
| 872   | Podophyllum       |     |       |       |    |    |       |         |
| 873   | Polemonium        |     |       |       |    |    |       |         |
| 874   | Polemonium        |     |       |       |    |    |       |         |
| 875   | Polemonium        |     |       |       |    |    |       |         |
| 876   | Polygonatum       |     |       |       |    |    |       |         |
| 877   | Potentilla        |     |       |       |    |    |       |         |
| 878   | Potentilla        |     |       |       |    |    |       |         |
| 879   | Primula           |     |       |       |    |    |       |         |
| 880   | Primula           |     |       |       |    |    |       |         |
| 881   | Primula           |     |       |       |    |    |       |         |
| 882   | Primula           |     |       |       |    |    |       |         |
| 883   | Primula           |     |       |       |    |    |       |         |
| 884   | Primula           |     |       |       |    |    |       |         |
| 885   | Primula           |     |       |       |    |    |       |         |
| 886   | Primula           |     |       |       |    |    |       |         |
| 887   | Primula           |     |       |       |    |    |       |         |
| 888   | Primula           |     |       |       |    |    |       |         |
| 889   | Primula           |     |       |       |    |    |       |         |
| 890   | Primula           |     |       |       |    |    |       |         |
| 891   | Primula           |     |       |       |    |    |       |         |
| 892   | Primula           |     |       |       |    |    |       |         |
| 893   | Prospero          |     |       |       |    |    |       |         |
| 894   | Prunus            |     |       |       |    |    |       |         |
| 895   | Pseudofumaria     |     |       |       |    |    |       |         |
| 896   | Pulsatilla        |     |       |       |    |    |       |         |
| 897   | Pulsatilla        |     |       |       |    |    |       |         |
| 898   | Pulsatilla        |     |       |       |    |    |       |         |
| 899   | Pulsatilla        |     |       |       |    |    |       |         |
| 900   | Pulsatilla        |     |       |       |    |    |       |         |
| 901   | Pulsatilla        |     |       |       |    |    |       |         |
| 902   | Pulsatilla        |     |       |       |    |    |       |         |
| 903   | Pulsatilla        |     |       |       |    |    |       |         |
| 904   | Pulsatilla        |     |       |       |    |    |       |         |
| 905   | Pulsatilla        |     |       |       |    |    |       |         |
| 906   | Pulsatilla        |     |       |       |    |    |       |         |
| 907   | Pulsatilla        |     |       |       |    |    |       |         |
| 908   | Pulsatilla        |     |       |       |    |    |       |         |
| 909   | Pulsatilla        |     |       |       |    |    |       |         |
| 910   | Pulsatilla        |     |       |       |    |    |       |         |
| 911   | Pulsatilla        |     |       |       |    |    |       |         |
| 912   | Pulsatilla        |     |       |       |    |    |       |         |
| 913   | Pycnanthemum      |     |       |       |    |    |       |         |
| 914   | Ramonda           |     |       |       |    |    |       |         |
| 915   | Ranunculus        |     |       |       |    |    |       |         |
| 916   | Ratibida          |     |       |       |    |    |       |         |
| 917   | Ratibida          |     |       |       |    |    |       |         |
| 918   | Ratibida          |     |       |       |    |    |       |         |
| 919   | Ratibida          |     |       |       |    |    |       |         |
| 920   | Reseda            |     |       |       |    |    |       |         |
| 921   | Rhodiola          |     |       |       |    |    |       |         |
| 922   | Rhododendron      |     |       |       |    |    |       |         |
| 923   | Ricinus           |     |       |       |    |    |       |         |
| 924   | Romulea           |     |       |       |    |    |       |         |

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| Genus | Species or Hybrid  | P  | T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes    |
|-------|--|----|---|-------|-------|----|-----|-------|------------|
| 925   | Rosa glauca  | PT |   | pink  |       | SH | 200 | COOK  | D 8        |
| 926   | Roscoea schneideriana                                    | PT |   | purp  |       | PE | 30  | COST  | A          |
| 927   | Roscoea scillifolia f. atropurpurea                      | PT |   | blac  | burg  | PE | 30  | COST  | A 7        |
| 928   | Rudbeckia hirta  | PT |   | yell  |       | PE | 120 | COOK  | A          |
| 929   | Rudbeckia hirta  | PT |   | yell  |       | PE | 40  | SHAW  | A          |
| 930   | Rudbeckia maxima   | PT |   | yell  | brow  | PE | 100 | SHAW  | F          |
| 931   | Rudbeckia nitida   | PT |   | yell  | gree  | PE | 90  | SHAW  | A          |
| 932   | Rudbeckia subtomentosa                                   | PT |   | gold  |       | PE | 120 | TAYL  | A          |
| 933   | Rudbeckia subtomentosa 'Little Henry'                    | PT |   | yell  |       | PE | 90  | GREE  | A          |
| 934   | Rudbeckia triloba  | PT |   | yell  |       | AN | 90  | COOK  | F          |
| 935   | Ruta graveolens  | PT |   | yell  |       | PE | 45  | COST  | A 2        |
| 936   | Salvia canescens var. daghestanica                       | PT |   | blue  |       | PE | 20  | CLAR  | A 3        |
| 937   | Salvia coccinea  | PT |   | red   |       | PE | 30  | PALM  | A 3        |
| 938   | Salvia coccinea 'Lady in Red'                            | PT |   | red   |       | AN | 60  | RICH  | A 3        |
| 939   | Salvia sp.   | PT |   | blue  |       | PE | 60  | PETT  | [X] A      |
| 940   | Salvia splendens   | PT |   | red   |       | PE | 50  | WELS  | A          |
| 941   | Salvia splendens 'Blaze of Fire'                         | PT |   | red   |       | AN | 50  | PETT  | A          |
| 942   | Salvia viridis   | PT |   | purp  |       | AN | 40  | COST  | A          |
| 943   | Sanguisorba officinalis                                  | PT |   | burg  |       | PE | 15  | BONY  | A 3        |
| 944   | Sanguisorba officinalis var. microcephala 'Little Angel' | PT |   | burg  |       | PE | 15  | TAYL  | A 3        |
| 945   | Sanguisorba tenuifolia 'Purpurea'                        | PT |   | burg  |       | PE | 90  | SAVA  | B          |
| 946   | Sanguisorba x tenuifolia                                 | PT |   | whit  |       | PE | 150 | CARR  | B          |
| 947   | Sauromatum venosum                                       | PT |   | viol  | yell  | BU | 90  | VANS  | A          |
| 948   | Saxifraga cotyledon                                      | PT |   | crea  |       | PE | 15  | WALK  | ! E *      |
| 949   | Saxifraga ferdinandi-cobugi var. radoslavoffii           | PT |   | whit  |       | PE | 4   | HILD  | ! E *      |
| 950   | Saxifraga hostii subsp. rhaetica                         | PT |   | whit  |       | PE | 30  | ALLA  | ! E *      |
| 951   | Saxifraga 'Lilac Time'                                   | PT |   | peac  |       | PE | 5   | ALLA  | ! L *      |
| 952   | Saxifraga longifolia                                     | PT |   | whit  |       | PE | 10  | VANS  | ! L *      |
| 953   | Saxifraga marginata 'Jaroslav Horny'                     | PT |   | whit  |       | PE | 4   | HILD  | E *        |
| 954   | Saxifraga paniculata                                     | PT |   | whit  |       | PE | 40  | ALLA  | ! A 3 *    |
| 955   | Saxifraga paniculata                                     | PT |   | whit  |       | PE | 10  | MURP  | ! A 3 *    |
| 956   | Saxifraga paniculata                                     | PT |   | whit  |       | PE | 10  | PETT  | ! A 3 *    |
| 957   | Saxifraga paniculata                                     | PT |   | whit  |       | PE | 25  | TAYL  | ! A 3 *    |
| 958   | Saxifraga paniculata 'Laestadii'                         | PT |   | whit  |       | PE | 15  | ALLA  | ! A 3 *    |
| 959   | Saxifraga paniculata 'Lagroveana'                        | PT |   | whit  |       | PE | 15  | ALLA  | ! A 3 *    |
| 960   | Saxifraga paniculata 'Punctata'                          | PT |   | whit  | red   | PE | 15  | GREE  | ! A 3 *    |
| 961   | Saxifraga paniculata var. baldensis                      | PT |   | whit  |       | PE | 10  | ALLA  | ! A 3 *    |
| 962   | Saxifraga paniculata var. brevifolia                     | PT |   | whit  |       | PE | 15  | ALLA  | ! A 3 *    |
| 963   | Saxifraga paniculata var. brevifolia                     | PT |   | whit  |       | PE | 4   | HILD  | ! A 3 *    |
| 964   | Saxifraga portae   | PT |   | whit  |       | PE | 15  | ALLA  | ! A 3 *    |
| 965   | Saxifraga 'Whitehill'                                    | PT |   | whit  |       | PE | 25  | ALLA  | ? Try! L * |
| 966   | Saxifraga x arendsii 'Coral Carpet'                      | PT |   | peac  |       | PE | 10  | TAYL  | ! A 3 *    |
| 967   | Saxifraga x macnabiana                                   | PT |   | whit  |       | PE | 5   | HILD  | ! A *      |
| 968   | Saxifraga x macnabiana                                   | PT |   | whit  |       | PE | 30  | TAYL  | ! A *      |
| 969   | Saxifraga x macnabiana                                   | PT |   | whit  |       | PE | 30  | WELS  | ! A *      |
| 970   | Saxifraga x urbium 'Variegata'                           | PT |   | whit  | pink  | PE | 15  | TAYL  | ! E 3 *    |
| 971   | Scabiosa columbaria 'Nana'                               | PT |   | lave  |       | PE | 10  | STUA  | A          |
| 972   | Scabiosa japonica var. alpina                            | PT |   | blue  |       | PE | 8   | HILD  | A          |
| 973   | Scabiosa japonica var. alpina 'Ritz Blue'                | PT |   | blue  |       | PE | 10  | EICH  | A          |
| 974   | Scabiosa sp.   | PT |   | blue  |       | PE | 30  | CHAR  | A          |
| 975   | Scabiosa vestina   | PT |   | blue  | whit  | PE | 25  | WELS  | A          |
| 976   | Scrophularia macrantha                                   | PT |   | red   |       | PE | 40  | MIDD  | B 3        |
| 977   | Scutellaria alpina                                       | PT |   | blue  |       | PE | 25  | CHAR  | A          |
| 978   | Scutellaria alpina 'Arcobaleno'                          | PT |   | lila  | whit  | PE | 15  | TAYL  | A          |
| 979   | Scutellaria pontica                                      | PT |   | purp  |       | PE | 18  | ALLA  | A          |
| 980   | Scutellaria baicalensis                                  | PT |   | blue  |       | PE | 30  | SAVA  | A          |
| 981   | Senna hebecarpa  | PT |   | yell  |       | PE | 120 | DOLB  | A 6 7      |
| 982   | Senna marilandica  | PT |   | yell  |       | SH | 170 | MIZY  | J 6 7      |
| 983   | Sesleria argentea  | PT |   | whit  |       | PE | 60  | GREE  | B          |
| 984   | Sidalcea malviflora                                      | PT |   | pink  |       | PE | 65  | COST  | A          |
| 985   | Sidalcea malviflora 'Party Girl'                         | PT |   | pink  |       | PE | 90  | LEVY  | A          |
| 986   | Sidalcea malviflora 'Party Girl'                         | PT |   | pink  |       | PE | 50  | MERR  | A          |
| 987   | Silene acaulis   | PT |   | pink  |       | PE | 5   | ALLA  | A          |
| 988   | Silene acaulis ex. Iceland                               | PT |   | pink  |       | PE | 5   | ALLA  | A          |
| 989   | Silene alpestris   | PT |   | pink  |       | PE | 10  | MERR  | A          |
| 990   | Silene armeria   | PT |   | rose  |       | AN | 15  | CLAR  | A 3        |



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| Genus | Species or Hybrid                                       | P T | Col-1 | Col-2 | Tp | Ht   | Donor | G.Codes     |
|-------|---|-----|-------|-------|----|------|-------|-------------|
| 991   | Silene chalconica                                       | PT  | oran  |       | PE | 100  | VANS  | A 3 4       |
| 992   | Silene chalconica                                       | PT  | pink  |       | PE | 120  | SAVA  | A 3 4       |
| 993   | Silene coronaria  | PT  | pink  |       | PE | 90   | COOK  | A 3 4       |
| 994   | Silene coronaria  | PT  | rose  |       | PE | 70   | GREE  | A 3 4       |
| 995   | Silene coronaria  | PT  | rose  |       | PE | 60   | PALM  | A 3 4       |
| 996   | Silene coronaria  | PT  | whit  |       | BI | 90   | GAGN  | A 3 4       |
| 997   | Silene coronaria Oculata Group                          | PT  | whit  | pink  | PE | 70   | GREE  | A 3 4       |
| 998   | Silene flos-jovis                                       | PT  | pink  |       | PE | 60   | LEVY  | A           |
| 999   | Silene hookeri  | PT  | pink  |       | PE | 18   | ALLA  | A           |
| 1000  | Silene hookeri  | PT  | pink  |       | PE | 8    | HOWE  | A           |
| 1001  | Silene orientalis                                       | PT  | pink  |       | AN | 25   | SNOW  | A           |
| 1002  | Silene saxifraga  | PT  | whit  |       | PE | 10   | STUA  | A           |
| 1003  | Silene undulata   | PT  | whit  |       | AN | 24   | KERR  | A           |
| 1004  | Silene uniflora 'Compacta'                              | PT  | crea  |       | PE | 15   | SHAW  | A           |
| 1005  | Silene uniflora 'Compacta'                              | PT  | whit  |       | PE | 22   | ALLA  | A           |
| 1006  | Silene viscaria   | PT  | pink  |       | PE | 45   | LEVY  | A 3         |
| 1007  | Silene viscaria 'Feuer'                                 | PT  | rose  |       | PE | 40   | GREE  | A 3 4       |
| 1008  | Silene X arkwrightii                                    | PT  | red   |       | PE | 60   | LEVY  | A           |
| 1009  | Silene zawadskii  | PT  | whit  |       | PE | 30   | BOTI  | A           |
| 1010  | Silphium asteriscus                                     | PT  | yell  |       | PE | 150  | CARR  | J           |
| 1011  | Silphium perfoliatum                                    | PT  | yell  |       | PE | 240  | COOK  | A           |
| 1012  | Silphium perfoliatum                                    | PT  | yell  |       | PE | 180  | VARA  | A           |
| 1013  | Silphium perfoliatum                                    | PT  | yell  |       | PE | 200  | WALK  | A           |
| 1014  | Silphium terebinthinaceum                               | PT  | yell  |       | PE | 200  | CARR  | J           |
| 1015  | Silybum marianum  | PT  | purp  |       | PE | 100  | CHAR  | A N         |
| 1016  | Sisyrinchium angustifolium                              | PT  | blue  |       | PE | 60   | COOK  | A 3         |
| 1017  | Solidago flexicaulis                                    | PT  | yell  |       | PE | 90   | COOK  | J           |
| 1018  | Solidago flexicaulis                                    | PT  | yell  |       | PE | 100  | LEEM  | J           |
| 1019  | Solidago ptarmicoides                                   | PT  | whit  |       | PE | 35   | RICH  | A           |
| 1020  | Solidago riddellii                                      | PT  | yell  |       | PE | 100  | COOK  | J 3         |
| 1021  | Solidago rigida   | PT  | yell  |       | PE | 150  | COOK  | A           |
| 1022  | Solidago speciosa                                       | PT  | yell  |       | PE | 150  | COOK  | A           |
| 1023  | Sorbus koehneana  | PT  | whit  |       | SH | 300  | CARR  | L           |
| 1024  | Sorghastrum nutans                                      | PT  | gree  |       | PE | 240  | COOK  | [X] J       |
| 1025  | Sphaeralcea coccinea                                    | PT  | oran  |       | PE | 15   | BOTI  | F           |
| 1026  | Spigelia marilandica                                    | PT  | red   | yell  | PE | 25   | TAYL  | J           |
| 1027  | Spigelia marilandica                                    | PT  | red   |       | PE | 60   | EICH  | J           |
| 1028  | Stachys officinalis                                     | PT  | purp  |       | PE | 40   | BREL  | A           |
| 1029  | Stachys officinalis 'Densiflorus'                       | PT  | lave  |       | PE | 25   | SHAW  | A           |
| 1030  | Stachys officinalis 'Hummelo'                           | PT  | rose  |       | PE | 30   | TAYL  | A           |
| 1031  | Stachys officinalis 'Pink Cotton Candy'                 | PT  | pink  |       | PE | 50   | SHAW  | A           |
| 1032  | Styphnolobium japonicum                                 | PT  | crea  |       | TR | 1000 | LEGG  | A 6         |
| 1033  | Symphoricarpos albus                                    | PT  | pink  |       | SH | 110  | COOK  | C 8         |
| 1034  | Symphyotrichum cordifolium                              | PT  | blue  |       | PE | 100  | LEEM  | J           |
| 1035  | Symphyotrichum laeve                                    | PT  | blue  |       | PE | 50   | COST  | A           |
| 1036  | Symphyotrichum laeve                                    | PT  | blue  |       | PE | 35   | SAVA  | A           |
| 1037  | Symphyotrichum novi-belgii                              | PT  | purp  |       | PE | 120  | COOK  | J           |
| 1038  | Symphyotrichum novi-belgii 'Professor Anton Kippenberg' | PT  | lave  |       | PE | 30   | LEEM  | J           |
| 1039  | Symphyotrichum oolentangiense                           | PT  | blue  |       | PE | 50   | RICH  | A           |
| 1040  | Syneilesis aconitifolia                                 | PT  | pink  |       | PE | 60   | SHAW  | A *         |
| 1041  | Syneilesis aconitifolia                                 | PT  | pink  |       | PE | 90   | STUA  | A *         |
| 1042  | Syneilesis aconitifolia                                 | PT  | whit  |       | PE | 90   | RICH  | A *         |
| 1043  | Syneilesis palmata                                      | PT  | whit  |       | PE | 60   | COSE  | L           |
| 1044  | Synurus deltoides                                       | PT  | red   |       | PE | 200  | CARR  | L           |
| 1045  | Syringa x prestoniae                                    | PT  | lila  | pink  | SH | 150  | MIDD  | G 7 8       |
| 1046  | Tagetes patula Safari Series                            | PT  | red   | yell  | AN | 25   | SHAW  | A           |
| 1047  | Tagetes patula 'Strawberry Blonde'                      | PT  | mix   | gold  | AN | 20   | GAGN  | A 2         |
| 1048  | Tanacetum parthenium 'White Wonder'                     | PT  | whit  |       | PE | 60   | TAYL  | ! A         |
| 1049  | Telekia speciosa  | PT  | yell  |       | PE | 190  | SAVA  | A           |
| 1050  | Tetraneuris acaulis                                     | PT  | yell  |       | PE | 15   | TAYL  | A           |
| 1051  | Teucrium canadense <sup>w</sup>                         | PT  | pink  |       | PE | 50   | COST  | B           |
| 1052  | Thalictrum alpinum                                      | PT  | gree  | yell  | PE | 20   | PETE  | ! A         |
| 1053  | Thalictrum aquilegifolium                               | PT  | pink  |       | PE | 60   | WELS  | ! A         |
| 1054  | Thalictrum delavayi 'Splendide'                         | PT  | lave  |       | PE | 150  | SHAW  | ? Try ! B 5 |
| 1055  | Thalictrum rochebruneanum                               | PT  | lave  |       | PE | 150  | BONY  | ! L 4       |
| 1056  | Thalictrum rochebruneanum                               | PT  | lave  |       | PE | 200  | STUA  | ! L 4       |



# ORG&HPS Seed Exchange 2022 - 2023

| Genus | Species or Hybrid                                   | P T | Col-1 | Col-2 | Tp | Ht  | Donor | G.Codes     |
|-------|---|-----|-------|-------|----|-----|-------|-------------|
| 1057  | Thalictrum speciosissimum                           | PT  | yell  |       | PE | 90  | SHAW  | ! F         |
| 1058  | Thermopsis rhombifolia <sup>w</sup>                 | PT  | whit  |       | PE | 26  | SAVA  | A           |
| 1059  | Thermopsis villosa                                  | PT  | yell  |       | PE | 140 | DOLB  | ! A 1 6 7 * |
| 1060  | Thermopsis villosa                                  | PT  | yell  |       | PE | 150 | MIZY  | ! A 1 6 7 * |
| 1061  | Thlaspi stylosum                                    | PT  | pink  |       | PE | 4   | ALLA  | A           |
| 1062  | Thymophylla tenuiloba                               | PT  | yell  |       | PE | 25  | SMIT  | K           |
| 1063  | Thymus longiflorus                                  | PT  | pink  |       | PE | 20  | GREE  | A           |
| 1064  | Tithonia rotundifolia 'Torch'                       | PT  | oran  |       | AN | 150 | HARV  | A 3         |
| 1065  | Tithonia rotundifolia 'Torch'                       | PT  | oran  |       | AN | 120 | VARA  | A 3         |
| 1066  | Townsendia minima                                   | PT  | pink  |       | PE | 4   | ALLA  | A           |
| 1067  | Townsendia rothrockii                               | PT  | pink  |       | PE | 15  | CLAR  | A           |
| 1068  | Tricyrtis hirta                                     | PT  | whit  | purp  | PE | 40  | HEND  | A 3         |
| 1069  | Tricyrtis hirta 'White Towers'                      | PT  | whit  |       | PE | 40  | HEND  | A 3         |
| 1070  | Tricyrtis latifolia                                 | PT  | yell  |       | PE | 100 | CARR  | A 3         |
| 1071  | Tricyrtis latifolia                                 | PT  | yell  |       | PE | 100 | DOLB  | A 3         |
| 1072  | Tricyrtis latifolia                                 | PT  | yell  |       | PE | 75  | RICH  | A 3         |
| 1073  | Trientalis borealis <sup>w</sup>                    | PT  | whit  |       | PE | 20  | COST  | A N         |
| 1074  | Triosteum pinnatifidum                              | PT  | crea  | gree  | PE | 35  | COST  | H *         |
| 1075  | Triosteum pinnatifidum                              | PT  | whit  | gree  | PE | 50  | PETE  | H *         |
| 1076  | Trollius europaeus                                  | PT  | yell  |       | PE | 60  | CARR  | E           |
| 1077  | Trollius europaeus 'Golden Globe'                   | PT  | yell  |       | PE | 70  | SHAW  | E           |
| 1078  | Trollius hondoensis                                 | PT  | yell  |       | PE | 80  | CARR  | G           |
| 1079  | Trollius pumilus                                    | PT  | yell  |       | PE | 6   | MERR  | A           |
| 1080  | Tropaeolum speciosum                                | PT  | mix   |       | AN | 15  | TAYL  | A           |
| 1081  | Tulbaghia violacea                                  | PT  | lave  |       | BU | 40  | BREL  | A           |
| 1082  | Tulipa sylvestris                                   | PT  | yell  |       | BU | 30  | CLAR  | L *         |
| 1083  | Tulipa urumiensis                                   | PT  | whit  | yell  | BU | 15  | CLAR  | L *         |
| 1084  | Valeriana rubra                                     | PT  | pink  |       | PE | 40  | CLAR  | A           |
| 1085  | Verbascum pyramidatum                               | PT  | yell  |       | BI | 90  | MERR  | A 3         |
| 1086  | Verbascum blattaria                                 | PT  | whit  |       | BI | 80  | RICH  | A 3         |
| 1087  | Verbena bonariensis                                 | PT  | lave  |       | AN | 170 | COOK  | A           |
| 1088  | Verbena bonariensis                                 | PT  | lave  |       | AN | 80  | TAYL  | A           |
| 1089  | Verbena hastata                                     | PT  | purp  |       | PE | 120 | COOK  | J 3         |
| 1090  | Verbena rigida                                      | PT  | purp  |       | AN | 20  | CLAR  | J           |
| 1091  | Verbena stricta                                     | PT  | purp  |       | PE | 120 | GAGN  | J           |
| 1092  | Verbesina alternifolia                              | PT  | yell  |       | PE | 240 | COOK  | J           |
| 1093  | Vernonia noveboracensis                             | PT  | purp  |       | PE | 240 | COOK  | G 2         |
| 1094  | Vernonia noveboracensis                             | PT  | whit  |       | PE | 200 | CARR  | G 2         |
| 1095  | Veronica allionii                                   | PT  | blue  |       | PE | 10  | CLAR  | A           |
| 1096  | Veronica gentianoides                               | PT  | blue  |       | PE | 20  | CLAR  | A 3         |
| 1097  | Veronica gentianoides                               | PT  | blue  |       | PE | 30  | TAYL  | A 3         |
| 1098  | Veronica spicata                                    | PT  | purp  |       | PE | 30  | COOK  | A           |
| 1099  | Veronica spicata 'Giles van Hees'                   | PT  | pink  |       | PE | 18  | TAYL  | A           |
| 1100  | Veronicastrum sibiricum                             | PT  | lave  |       | PE | 150 | COOK  | K 3         |
| 1101  | Veronicastrum sibiricum                             | PT  | lila  |       | PE | 120 | DOLB  | K 3         |
| 1102  | Veronicastrum sp.                                   | PT  | purp  |       | PE | 120 | PETT  | J 3         |
| 1103  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 90  | COOK  | J 3 6       |
| 1104  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 130 | COST  | J 3 6       |
| 1105  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 100 | RICH  | J 3 6       |
| 1106  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 90  | SHAW  | J 3 6       |
| 1107  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 150 | VANS  | J 3 6       |
| 1108  | Veronicastrum virginicum                            | PT  | whit  |       | PE | 90  | SAVA  | J 3 6       |
| 1109  | Visnaga daucooides 'Green Mist'                     | PT  | gree  | whit  | AN | 100 | GAGN  | A           |
| 1110  | Wisteria frutescens subsp. macrostachya 'Aunt Dee'  | PT  | purp  |       | VI | 762 | ALLA  | A 6 7       |
| 1111  | Wisteria frutescens subsp. macrostachya 'Blue Moon' | PT  | purp  |       | VI | 700 | GAGN  | A 6 7       |
| 1112  | Xanthoceras sorbifolium                             | PT  | whit  |       | SH | 100 | EICH  | A 2         |
| 1113  | Zephyranthes candida                                | PT  | whit  |       | BU | 25  | WRIG  | ! A         |
| 1114  | Zephyranthes macrosiphon                            | PT  | pink  |       | BU | 35  | COSE  | ! A         |
| 1115  | Zephyranthes minuta                                 | PT  | pink  |       | BU | 20  | COSE  | A           |
| 1116  | Zizia aurea   | PT  | yell  |       | PE | 50  | BREL  | J           |
| 1117  | Zizia aurea   | PT  | yell  |       | PE | 90  | COOK  | J           |
| 1118  | Zizia aurea   | PT  | yell  |       | PE | 60  | WALK  | J           |