Walker Farm Seed Germination Guide

The following data is provided by The Thompson & Morgan Successful Seed Raising Guide. This guide is now out of print.

A seed is an embryo and contains within itself virtually all the materials and energy to start off a new plant. To get the most from one's seeds it is helpful to understand a little about their needs, so that just the right conditions can be given for successful growth.

One of the most usual causes of failures with seed is sowing too deeply; a seed has only enough food within itself for a limited period of growth and a tiny seed sown too deeply soon expends that energy and dies before it can reach the surface. Our seed guide therefore states the optimum depth at which each type of seed should be sown. Another common cause of failure is watering. Seeds need a supply of moisture and air in the soil around them. Keeping the soil too wet drives out the air and the seed quickly rots, whereas insufficient water causes the tender seedling to dry out and die. We can thoroughly recommend the Polythene bag method (No. 11) which helps to overcome this problem. Watering of containers of very small seeds should always be done from below, allowing the water to creep up until the surface glistens.

Most seeds will of course only germinate between certain temperatures. Too low and the seed takes up water but cannot germinate and therefore rots, too high and growth within the seed is prevented. Fortunately most seeds are tolerant of a wide range of temperatures but it is wise to try to maintain a steady, not fluctuating temperature, at around the figure we have recommended in our guide. Once several of the seeds start to germinate the temperatures can be reduced by about 5'F and ventilation and light should be given.

Some perennials and tree and shrub seeds can be very slow and erratic in germination. This may sometimes be due to seed dormancy, a condition which prevents the seed from germinating even when it is perfectly healthy and all conditions for germination are at optimum. The natural method is to sow the seeds out of doors somewhere where they will be sheltered from extremes of climate, predators, etc. and leave them until they emerge, which may be two or three seasons later. Dormancy, however, can be broken artificially and our section Nos. 12-16 deals with this.

HINTS ON SEED RAISING

1. Strelitzia and similar

Do not chip or mark the seedcoat at all but merely remove the orange tuft and soak for up to 2 hours, or even overnight. Sow the seeds in moist sand, pressing them into the sand until only a small part of the black seed is visible and grow in a temperature of 75°F in the dark and ensure that the sand always remains moist. From 7 days onwards inspect the container once a week and as soon as any bulges, roots or shoots are seen remove the germinated seed and pot up in a compost of half peat and half sand. We find that Strelitzias often produce a root without a shoot and we have also found that the young shoots and roots are susceptible to fungal attack. Therefore as soon as possible pot up and provide light and fresh air. Germination can start within 7 days and carry on for 6 months or more.

2. Palms; Banana; Coffee; Mini-Orange; Tea; Cycads and similar

All these items can take several months to germinate and are very erratic in germination. Soak for at least 2 hours in warm water before sowing. (After soaking the parchment shell on the Coffee seeds should be removed with the fingernail). Sow in Levington or Arthur Bowers compost and place in the dark in a temperature of 75F, keeping the compost moist at all times, but not wet. Inspect regularly and occasionally dig around in the compost with a penknife. We normally sow our seeds just below the surface of the soilatid we have found that sometimes they make a very vigorous root without producing a shoot at all. If you find a seed with a root then it should be excavated and potted up into a 3-4' pot immediately when it will produce a shoot. Cycads prefer to be potted up into a compost of half sand and half peat. The Tea requires the above treatment but in a lower temperature of 60-65'F.

3. Clivia and similar

Sow these seeds immediately on receipt in Levington or a peat based compost, covering with a 112 " compost. Water and place in the dark in a temperature of 65-70'F. Germination should occur within 3 weeks.

4. Ferns (Garden and Indoor)

The fern spore needs a fine film of moisture over which to swim in order to complete the process of reproduction, therefore a good peat compost, such as Levington, ought to be used pressed down very firmly and which is a lot more moist than one would normally have it in order to provide the moisture film. The spore (seed) should be sprinkled close together on the surface of the soil and not covered and the container should be covered with a piece of glass and placed in diffused light, but not darkness. It is essential to ensure that the compost remains moist at all times. Germination which commences with the appearance of a film of green jelly over the soil can take anything from 1 -5 months.

You may wish to try germinating the fern spore on blotting paper which is placed in a saucer and kept moist at all times. A transparent cover is inverted over the saucer and the whole lot placed in a well lit but not sunny position. You can actually see the fern spores developing and when you can see small plantlettes appearing along the jelly the blotting paper should be lifted and placed on the surface of a container of Levington compost and watered well. It should then be covered with a transparent cover which can remain there until the plants are quite large.

5. Bromeliads; Cineraria;

Calceolaria; Insect Eaters (Drosera, Nepenthes, Sarracenias);

Living Stones; Meconopsis;

Rubber Plants; Saintpaulia; Streptocarpus;

Tibouchina; Xmas Cactus;

Begonia and similar

These seeds should be sown on the surface of the compost and not covered. The compost should be quite moist and we would recommend that you cover the seed container with a piece of glass or clear plastic and leave in a temperature of approximately 65'F in a position which receives diffused light. Once some of the seeds have germinated air should be admitted gradually otherwise the seedlings may damp off.

Alternatively the seeds can be sown on to moist blotting paper or kitchen towel placed in a saucer. Cover with a transparent cover and place on a windowsill which receives plenty of light, but not direct sunlight. Keep the blotting paper wet at all times and when the tiny seedlings are large enough to handle prick out into small pots. If the INSECT EATERS are sown using the first method described the compost requires to be both moist yet free draining. Use only pure peat with no fertiliser added to which sphagnum moss should be added if available.

6. Alstroemeria; Bonsai; Clematis; Hardy Cyclamen; Eucalyptus; Flower Lawn; Helleborus; Hosta; Primula;

Iris and similar.

wall or in a cold frame, making sure they are protected against mice, and leave them there until the spring. The compost should be kept moist but not wet at all times, and if the seed containers are out in the open then some shelter has to be given against excessive rain. In the spring bring the seed containers into the greenhouse, or indoors on to a well lit but not sunny windowsill and keep the compost moist. This should trigger off germination. If the seeds do not germinate in the spring keep them in cool moist conditions throughout the summer. As each seed germinates we would recommend that you transplant it almost immediately into its own pot.

Sowing MARCH-SEPTEMBER. Sow in John Innes seed compost, or something similar, and place each container in a polythene bag and put into the refrigerator (not the freezer compartment) for 2-3 weeks. After this time place the containers outside in a cold frame or plunge them up to the rims in a shady part of the garden border and cover with glass or clear plastic. Some of the seeds may germinate during the spring and summer and these should be transplanted when large enough to handle. The remainder of the seeds may lay dormant until next spring.

Germination of some items, particularly Alstroemeria, Clematis, Hardy Cyclamen and Christmas Rose (Helleborus) may take take 18 months or more.

An alternative method for growing P R I M U LAS is to sow in a peat based compost which has already been moistened and do not cover the seed. Cover the container with a piece of glass or plastic and grow in the dark in a steady temperature of 60F. This is quite adequate and over 65'F germination will be inhibited. When the seeds start to germinate sprinkle a thin layer of fine compost over them and when the seed leaves come through this, move the box to a well lit place with a temperature of 55'F. At no time should the seed box be in full sun.

Hardy Cyclamen have been found to germinate best in total darkness at around 55-60'F. We have had good results with the following method. Place the seeds between two pieces of damp filter paper, Kleenex tissue, etc., then put into a polythene bag and place this into an opaque container in order to exclude all light. Inspect the seeds after a month and remove and prick out as the seedlings appear, returning the ungerminated seeds to total darkness.

7. Freesia

Soak the seeds for 24 hours and sow in Levington compost, or something similar, and place in a temperature of 50-60'F. Germination can sometimes be slow.

8. Nertera Granadensis (Bead Plant)

We recently found that this subject requires a well drained compost which is completely free from fertiliser (e.g. moss peat and sand in equal parts). Sow by barely covering the seed and place a sheet of glass over the container, and leave in a temperature of 65-75°F. Turn the glass daily as excessive condensation can kill the young seedlings. On germination the seedlings look very thin and spindly and the glass should be removed almost immediately and the seed container moved to a well lit but not sunny position. Prick out as soon as possible into a compost of 50% pure peat and 50% sand. Keep moist and shaded until established.

9. Cactus and similar

Make very shallow furrows in compost with a plant label and sow in these. No seed should be completely buried. Water from beneath and cover with glass and brown paper or black Polythene. Place in a dark position in a temperature of 70-75F and keep moist. On germinating move to a light but not sunny windowsill, give plenty of ventilation and water from beneath. Pot up when they begin to overcrowd. During the first winter only keep warm and do not allow to get too dry. If it is not possible to grow warm then keep them drier. Subsequent years keep relatively dry through the winter. Can be planted outside, plunged to the rim, all summer if required.

10. Lilies

Successful germination of seeds of some lilies requires a period of warmth followed by one of cold.

Method 1. Put seeds in a screw top jar in moist (not wet) peat and keep at 70-75F for 3-4 months. Inspect regularly, any normal seedlings (that is having root and seedling leaves) should be pricked out as they germinate. Any seeds which produce roots but not seedling leaves, sow in a pan and keep at 32-40'F for 3 months. Seed leaves and normal growth will follow.

Method 2. 'Sow in a pan in summer (warm spell); put in a frame (or outside covered by a piece of glass) for the winter. Seeds will germinate in spring. Soil Humus rich (peat or leafmould) lime free and very free drainage (use 1/3 grit). Never overwater, keep bulbs almost dry from November to March.

11. For more delicate seeds

A method which has proved useful for not only small delicate seeds but for a wide range of types is the Polythene bag method.

The seeds should be sown on the surface of the moist compost, covered to their recommended depth if necessary and the container is then placed inside a Polythene bag after which the end is sealed with an elastic band. The bag should 'fog-up' with condensation within 24 hours and if this does not occur place the container almost up to its rim in moisture until the soil surface glistens, then replace in the bag and reseal. The bag is not removed and normally no more watering is required until the seeds germinate. However, it is wise, if left for a long period to check the compost occasionally.

The seed container, bag etc. should be placed in a well lit place with a steady temperature. As soon as a fair number of the seedlings emerge remove the polythene bag, lower the temperature a few degrees and provide plenty of light, but not bright sunshine, to ensure that sturdy seedlings develop. It is also helpful to spray the seedlings occasionally for the first 14 days.

SPECIAL TREATMENT

12. Hard Seeds-Chipping

Some seeds, e.g. Sweet peas, Ipomaea etc., have hard seed coats which prevent moisture being absorbed by the seed. All that is needed is for the outer surface to be scratched or abraided to allow water to pass through. This can be achieved by chipping the seed with a sharp knife at a part furthest away from the 'eye', by rubbing lightly with sandpaper or with very small seed pricking carefully once with a needle etc.

Some of our geranium seeds have already been treated in this way when you receive them.

13. Hard Seeds-Soaking

Soaking is beneficial in two ways; it can soften a hard seed coat and also leach out any chemical inhibitors in the seed which may prevent germination. 24 hours in water which starts off hand hot is usually sufficient. If soaking for longer the water should be changed daily. Seeds of some species (e.g. Cytisus, Caragana, Clianthus) swell up when they are soaked. If some seeds of a batch do swell within 24 hours they should be planted immediately and the remainder pricked gently with a pin and returned to soak. As each seed swells it should be removed and sown before it has time to dry out.

14. Stratification (cold treatment)

Some seeds need a period of moisture and cold after harvest before they will germinate-usually this is necessary to either allow the embryo to mature or to break dormancy. This period can be artificially stimulated by placing the moistened seed in a refrigerator for a certain period of time (usually 3- 5 weeks at around 41 F). With tiny seeds it is best to sow them on moistened compost, seal the container in a Polythene bag and leave everything in the refrigerator for the recommended period. However, larger seeds can be mixed with 2-3 times their volume of damp peat, placed direct into a Polythene bag which is sealed and placed in the refrigerator. Look at seeds from time to time. The seeds must be moist whilst being pre-chilled, but it doesn't usually benefit them to be actually in water or at temperatures below freezing.

Light also seems to be beneficial after prechilling and so pre-chilled seeds should have only the lightest covering of compost over them, if any is required, and the seed trays etc. should be in the light and not covered with brown paper etc.

15. Double Dormancy

Some seeds have a combination of dormancies and each one has to be broken in turn and in the right sequence before germination can take place; for example, some Lilies, Tree paeonies, Taxus need a three month warm period (68-86'F) during which the root develops and then a three month chilling to break dormancy of the shoots, before the seedling actually emerges. Trillium needs a three month chill followed by three months of warmth and then a further three month chill before it will germinate.

16. Outdoor treatment

The above mentioned methods (12-15) accelerate the germination process and help to prevent seeds being lost due to external hazards (mice, disease, etc.) but outdoor sowing is just as effective albeit longer. The seeds are best sown in containers of free draining compost and placed in a cold frame or plunged up to their rim outdoors in a shaded part of the garden, preferably on the north side of the house avoiding cold drying winds and strong sun.

Recent tests show that much of the beneficial effects of pre-chilling are lost if the seed is not exposed to light immediately afterwards. We therefore recommend sowing the seeds very close to the surface of the soil and covering the container with a sheet of glass. An alternative method especially with larger seeds, is to sow the seed in a well prepared ground, cover with a jam jar and press this down well into the soil so that the seeds are enclosed and safe from predators, drying out etc.

We would also recommend you consult No. 6 which contains further practical suggestions regarding the special treatment of seeds.

Germination days.

The usual time period in which a particular variety will germinate given optimum conditions.

Light/Dark

Seeds needing light should have no newspaper, brown paper etc. placed over the trays. Seeds needing dark for germination should be placed in total darkness.

Slow and irregular germination

This is the column with the "X". Not all seeds will show at once

-prick out each seedling as it becomes large enough to handle and don't discard the container until well over the time suggested.

Temperature

A steady temperature between these limits is recommended-fluctuating temperatures can damage a seedling in its critical early stages.

Compost

Most reputable seed composts will be quite adequate and we have indicated where a loam based type such as John Innes or a peat based type such as Levington would be slightly more suitable. On no account should potting composts, which have additional fertillsers, be used.

Sowing Depth

If in doubt sow shallowly, but always ensure that the compost surface is damp.

J.C. = Just cover the seed with compost or sharp sand. S=Sow on the surface and do not cover at all with compost.

Sowing in situ

Where recommended under the heading of comments, these seeds can be sown out of doors. Moist soil worked down to a fine tilth is essential. For hardy annuals and perennials sowing can be carried out from late winter onwards as soon as the ground is workable and has warriied up and half hardy annuals after all danger of frost is passed.

SUGGESTED SOWING TIMES

Many seeds, particularly in the house plant raric e, can be sown indoors at almost any season of the year. Others, for example bedding plants, have a much limited sowing season because the plants need to be at just the right stage when planted out. We therefore offer the following general guide to sowing times. Your actual tirme of sowing will depend a great deal upon the steady temperature you can maintain in your greenhousese/propagator, soil, local conditions etc.

HA	Hardy Annual	Late winter/early spring.
нна	Half Hardy Annual	Early/ late spring. Normally 4 8 weeks before planting outside.
GBb	Greenhouse Bulb	
GP	Greenhouse Perennial	Anytime of year.
GSh	Greenhouse Shrub	
GT	Greenhouse Tree	
HP	Hardy Perennial	Late winter/late spring and late summer/autumn.
ННР	Half Hardy Perennial	Late winter/spring.
HBb	Hardy Bulb	Late winter/late spring and late summer/autumn
ннвв	Half Hardy Bulb	Late winter/spring.
HB	Hardy Biennal	Late spring/early summer.
ННВ	Half Hardy Biennal	Summer/autumn.
HSh	Hardy Shrub	Winter/late spring and late summer/autumn.
HHSh-	Half Hardy Shrub	Any time of year.
HT	Hardy Tree	Winter/late spring and late summer/autumn.
HHT	Half Hardy Tree	Any time of year.

Any plant which is to be planted outside (HA, HHA, HHP, HHSh.) should be well hardened off beforehand. This is best achieved by placing the plants outside in a cold frame for around a week before planting out. The frame can be left uncovered during mild weather but always replaced at night. Alternatively if no frame is available move the boxes outside to a sheltered spot during the day and bring indoors at night.

The "x" stands for slow and irregular germination.

Species Type Germ Days Germ temp Media Sow Depth Comments

Abarema	GP	7-56			70-75	Peaty		1/4"	Scarify seed by rubbing between 2 pieces of emery paper.
Abelmoschus	нна	15-30			75-80	Well	drained	1/16"	Soak 1 hour in lukewarm water before sowing.
Abies	HT	21-30	L	Χ	68-75	Peaty		S	Soak overnight then pre-chill for 21 days. (No. 14).
Abutilon	HHSH	21-30		Χ	70-80	Peaty		JC	
Acacia	HHSH	21			70-80	Well	drained	1/16"	See No. 13. Soak in warm water for 4 hours.
Acaena	HP	30-100		Χ	50-60	Well	drained	1/4"	
Acanthus	HP	21-25			50-55	Peaty		1/4".	
Acer	HT	30-365+	L	Χ	65-70	Peaty		S	Soak for 2 days then No. 15. (2 months warm moist, 2 months frig)
Achillea	HP	30-100	L	Χ	60-65	Well	drained	S	Reduce soil temperature at night.
Achimenes	GP	21-30			65-75	Well	drained	S	See No. 5. Seed is very small.
Acnistus	HHSH	21-42			55-65	Well	drained	1/16"	
Aconitum	HP	5-270	L	Χ	55-60	Well	drained	1/16"	See Nos. 6 & 14. Place in a fridge for 6 weeks.
Actaea	HP	30-365		Χ	55-60	Well	drained	JC	See No. 14. (Pre-chill for 6-8 weeks).
Actinidia	HP	60-90		Χ	50	Well	drained	1/8"	Male & Female flowers are bome on separate plants.
Adansonia	GSh	21-365		Χ	70-80	Peaty		1/16"	Soak in hand hot water. See No. 13.
Adenanthera	GSh	30-90			70-75	Well	drained	JC	See No. 13. Soak in hot water.
Adenium	GSh	7-14	L		65-70	Very	Well drain	eJC	
Adenophora	HP	30-90		Χ	50-55	Well	drained	S	
Adonis	HA, HP	30-120		Χ	60-65	Well	drained	JC	
Aechmia	GP	7-90	L	Χ	60-70	Peaty		S	See No. 5.
Aethionema	HP	30-90		Χ	60-65	Well	drained	JC	
Agapanthus	HHP	30-90			60-65	Well	drained	JC	
Agastache	HP	30-90			55	Well	drained	1/16 "	
Agave	GP	30-90	L	Χ	55	Well	drained	S	
Ageratum	ННА	10-14	L		70-75	Well	drained	S	
Agrostemma	HA	14-21			55-65	Well	drained	1/8"	Can be sown in situ
Ailanthus	HT	30-90	L	Χ	50-60	Well	drained	S	Chip, soak then No. 14 for 2 weeks.
Akebia	HSh	30-180	L	Χ	50-60	Peaty		S	See No. 14. (4 weeks).
Albiza	HSh/HT	30-90		Χ	65-75	Well	drained	1/8"	Soak for 12 hours in tepid water before sowing.
Alchemilla	HP	21-30			60-70	Well	drained	1/8"	
Allium	HBb	30-365	L		50	Well	drained	JC	See No. 14. Place in fridge for 4 weeks.
Aloe	GP	30-180	L		70	Well	drained	S	
Alonsoa	нна	14-21			60	Well	drained	1/16"	Cover seed with silver sand.
Alpina	GP	30-90			70-75	Peaty		1/8"	
Alstroemeria	HP	30-365		Χ	65-70	Peaty		1/16"	See No. 13. Soak in warm water. Sow singly in pcrts.
Alyssum	HA	7-14	L		55-75	Peaty		S	Annuals can be sown in situ.
Amaranthus	нна	10-15			70-75	Peaty		1/16"	
Amaryllis	HHBB	21-70		Χ	65-75	Peaty		1/16"	DO not dry off in the first year after sowing.
Ammi	нна	7-21			55-65	Well	drained	1/16"	
Ammobium	нна	10-15			60		drained	1/16"	
Amorpha	HSh	30-120		Χ	50-60		drained	1/16"	Soak for 12 hours in tepid water before sowing.
Anacampseros	GP	30-90	L	Χ			drained	S	
Anacyclus	HP	30-60	L	Χ	55-60		drained	JC	See No. 14. (Pre-chill for 3 weeks.)
Anagallis	ННА	30-42			50-65	Well		1/8"	
Anaphalis	HP	30-60					drained	JC	
Anchusa	HA, HP	7-30			70		drained	1/16"	Can be sown in siyu
Andromeda	HSh	30-60	L	X	50-60	Peaty		S	Stand seed pan in a saucer of water to keep soil always moist.
Androsace	HP	30-365		X	50-55		drained	S	See No. 16.
Anemone	HP	28-180		Χ	65-70	Well		JC	See No. 6.
Anemonopsis	HP	30-180	L	Χ	55-60		drained	S	Sow in lime free compost.
Anigozanthus	GP	30-90	L		60-65	_		S	See No. 5.
Anoda	нна	14-21			55-65		drained	1/4"	Can be sown in situ
Antennaria	HP	30-69			55-60		drained	JC	Just cover with silver sand.
Anthemis	HP	0-14			70		drained	S	
Anthericum	HP	30-90			50	Well	drained	1/8"	
Anthriscus	HP, HB	14-21			55-65		drained	1/4"	Usually sown in situ
Anthyllis	HP	30-60			50	Well	drained	1/8"	See No. 13. Soak in warm water overnight.
Antigonon	GP	21-30			b5-/0	well	drained	JC	

Antirrhinum	ННА	10-21	L		65-75	Peaty	S	
Aphyllanthes	HP	21-56		Χ	55-60	Peaty	JC	
Aquilegia	HP	30-90	L	Χ	65-75	Well drained	S	See No. 6 or 14. (Pre-chill for 3 weeks). Keep temperature below 70'F
Arabis	HP	20-25	L		70	Well drained	S	Can be sown in situ.
Arachis	GA	7-21			70-75	Peaty	1/4"	Sow, then place inside a Polythene bag until germination.
Araucaria	HT	30-60	D		55-60	Peaty	1/4"	Sow immediately
Araujia	HHSh	90-180		Х	75-80	Well drained	JC	
Arbutus	HT	60-90	L	Х	65-70	Peaty	S	See No. 14. (6-8 weeks).
Arctotis	нна	21-35			60-70	Well drained	JC	
Ardisia	GSh	90-180			75	Well drained	1/4"	
Arenaria	HP	15-30			55-65	Well drained	S	
Argemone	HA	14			65-70	Well drained	1/8"	Can be sown in situ
Arisaema	HP	30-180	L	Χ	55-60	Well drained	JC	
Aristea	GP	30-90		Χ	55-60	Well drained	JC	
Aristolochia	GSh	30-90		Χ	75-85	Peaty	S	See No. 13. (Soak 48 hours in hand hot water).
Armeria	HP	14-21			60-70	Well drained	JC	See No. 13. (6-8 hours in hand hot water).
Arnica	HP	25-30			55	Well drained	JC	Likes an acid sandy soil.
Artemisia	HP	30-60	L		60-65	Well drained	S	
Arum	HP	30-180		Х	55-65	Peaty	1/8"	
Aruncus	HP	30-90			55-65	Peaty	S	
Arundinaria	HSh	30-90	L	Х	70	Peaty	JC	Stand seed in a saucer of water to keep the soil always moist.
				Λ		-		Stand Seed in a Sauter of water to keep the Soff always moist.
Asarina	HHP	14-21	L		65-70	Well drained	S	
Asarum	HP	7-30			60-65	Well drained	1/16"	Sow as soon as possible.
Asclepias	GP, HP	30-90		Χ	50-75	Peaty	1/16"	See No. 14. (Pre-chil for 3-4 weeks).
Asparagus	GP	21-30			60-70	Peaty	1/4"	Soak then chip. See Nos. 12 and 13.
Asperula	HA	30-42	L		50	Well drained	1/16"	Can be sown in situ or No. 14. (Pre-chill 2 weeks).
Asphodeline	HP	30		Χ	70-75	Well drained	JC	
Aster	нна	10-14			65-70	Well drained	1/16"	Pre-chill perennial asters, see No. 14. (Pre-chill 2 weeks).
Asterolasia	HSh	30-180		Χ	55-65	Well drained	1/16"	
Astilbe	HP	40-80			65	Peaty	S	See No. 5.
Astrantia	HP	30-180	L	Х	55-65	Well drained	S	See No. 14. (Pre-chill for 4 weeks).
Atrinley	НΣ	9-21			50-55	Well drained	1/16"	Can be sown in situ
Atriplex	НА	9-21			50-55	Well drained	1/16"	Can be sown in situ
Atropa	HP	21-30			50	Well drained	1/16"	
Atropa Aubrieta	HP HP	21-30 14-21	L		50 65-75	Well drained	1/16 " S	Can be sown in situ See No. 5.
Atropa Aubrieta Aucuba	HP HP HSh	21-30 14-21 30-90		х	50 65-75 65-70	Well drained Well drained Well drained	1/16" S 1/8"	See No. 5.
Atropa Aubrieta	HP HP	21-30 14-21	L L	X X	50 65-75	Well drained	1/16 " S	
Atropa Aubrieta Aucuba	HP HP HSh	21-30 14-21 30-90			50 65-75 65-70	Well drained Well drained Well drained	1/16" S 1/8"	See No. 5.
Atropa Aubrieta Aucuba	HP HP HSh	21-30 14-21 30-90			50 65-75 65-70 55-60	Well drained Well drained Well drained	1/16" S 1/8"	See No. 5.
Atropa Aubrieta Aucuba Azalea	HP HP HSh HSh	21-30 14-21 30-90 50-90			50 65-75 65-70 55-60	Well drained Well drained Well drained Peaty	1/16" S 1/8" S	See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya	HP HP HSh HSh	21-30 14-21 30-90 50-90			50 65-75 65-70 55-60 60-65 60-65	Well drained Well drained Well drained Peaty Well drained	1/16" S 1/8" S	See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza	HP HP HSh HSh HHP	21-30 14-21 30-90 50-90 7-30 14-42		Х	50 65-75 65-70 55-60 60-65 60-65 65-70	Well drained Well drained Peaty Well drained Well drained	1/16" S 1/8" S JC 1/16"	See No. 5 or No. 6. Keep shaded from direct sun.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia	HP HSh HSh HHP HHP	21-30 14-21 30-90 50-90 7-30 14-42 30-90		Х	50 65-75 65-70 55-60 60-65 60-65 65-70	Well drained Well drained Peaty Well drained Well drained Well drained Peaty	1/16" S 1/8" S JC 1/16"	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia	HP HP HSh HSh HHP HP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10		Х	50 65-75 65-70 55-60 60-65 60-65 65-70 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained	1/16" S 1/8" S JC 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil	HP HSh HSh HHP HP HHSH HP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10		Х	50 65-75 65-70 55-60 60-65 60-65 65-70 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Well drained	1/16" S 1/8" S JC 1/16" S 1/4" 1/16"	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia	HP HP HSh HSh HHP HP HHSH HP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 7-10 21-42 14-60	L	Х	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 55-65	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Well drained Peaty Peaty Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia	HP HP HSh HHP HP HHSH HP HHAA GSh HHSH	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30	L	x	50 65-75 65-70 55-60 60-65 60-65 65-70 70-75 75-85 55-65 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Well drained Peaty Peaty Peaty Peaty	1/16" s 1/8" s JC 1/16" s 1/4" 1/16" s 1/16"	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Begonia	HP HP HSh HSh HHP HP HHSH HP HHA GSh HHSH GSh HHP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 7-10 21-42 14-60 7-30 15-60	L	x	50 65-75 65-70 55-60 60-65 65-70 70-75 55-65 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Begonia Belamcanda	HP HP HSh HSh HHP HP HHSH HP HHA GSh HHP HHP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 7-10 21-42 14-60 7-30 15-60 14-60	L L	x	50 65-75 65-70 55-60 60-65 65-70 70-75 55-65 70-75 70-80 60-86	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Well drained Peaty Peaty Peaty Peaty Peaty Well drained	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Fibrous 70-75F, tuberous 65-70F. See No. 14. (Pre-chill for 7 days).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Bejonia Belamcanda Bellis	HP HP HSh HSh HHP HP HHSH HP HHAA GSh HHPH HHSH	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15	L L	x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 55-65 70-75 70-80 60-86	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Peaty Well drained Peaty Peaty Peaty Peaty Peaty Peaty Peaty Peaty Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Reduce soil temperature at night.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Begonia Belamcanda Bellis Beloperone	HP HP HSh HSh HHP HP HHSH HP HHAA GSh HHSH HHP HHB	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180	L L L	x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 55-65 70-75 70-80 60-86 70 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Well drained Peaty Peaty Peaty Peaty Well drained Peaty	1/16" s 1/8" s JC 1/16" s 1/4" 1/16" s 1/16" s	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Reduce soil temperature at night. See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Bejonia Belamcanda Bellis	HP HP HSh HSh HHP HP HHSH HP HHA GSh HHSH GSh HHP HB	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15	L L	x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 55-65 70-75 70-80 60-86 70 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Peaty Well drained Peaty Peaty Peaty Peaty Peaty Peaty Peaty Peaty Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Reduce soil temperature at night.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Begonia Belamcanda Bellis Beloperone	HP HP HSh HSh HHP HP HHSH HP HHAA GSh HHSH HHP HHB	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180	L L L	x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 55-65 70-75 70-80 60-86 70 70-75	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Well drained Peaty Peaty Peaty Peaty Well drained Peaty	1/16" s 1/8" s JC 1/16" s 1/4" 1/16" s 1/16" s	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Reduce soil temperature at night. See No. 5.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Begonia Belamcanda Bellis Beloperone Berberis	HP HP HSh HSh HHP HP HHSH HP HHA GSh HHSH GSh HHP HB	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180	L L L	x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 55-65 70-75 70-80 60-86 70 70-75 50-65	Well drained Well drained Peaty Well drained Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Peaty Peaty Peaty Well drained Peaty Peaty Well drained Peaty Well drained Peaty Well drained Peaty Well drained	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 5. See No. 14. (8 weeks).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia	HP HP HSh HSh HHP HP HHSH HP HHAA GSh HHP HB GP HSh	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180 30-180	L L L	x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 70-85 70-80 60-86 70 70-75 50-65 60-70	Well drained Well drained Peaty Well drained Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Well drained Peaty Peaty Well drained Peaty Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 5. See No. 14. (8 weeks).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera	HP HP HSh HSh HHP HHSH HP HHSH HP HHB GSh HHP HB GSh HHP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180 30-90	L L L	x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 70-75 70-80 60-86 70 70-75 50-65 60-70 60-70	Well drained Well drained Peaty Well drained Well drained Peaty Well drained Well drained Peaty Peaty Peaty Peaty Well drained	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 5. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera Beta	HP HP HSh HSh HHP HP HHSH HP HHAA GSh HHP HB GP HSh	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 30-180 30-180 30-90 14-21	L L L	x x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 70-75 70-80 60-86 70 70-75 50-65 60-70 60-70 55-65 65-75	Well drained Well drained Peaty Well drained Well drained Well drained Peaty Well drained Peaty Peaty Peaty Well drained Peaty	1/16" s 1/8" s JC 1/16" s 1/4" 1/16" s 1/16" s 1/16" s	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks). Usually sown in situ.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera Beta Beta Betula	HP HP HSh HSh HHP HP HHSH HP HHA GSh HHP HB GP HSh HP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180 30-180 30-90 14-21 30-90	L L L	x x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 75-85 70-75 70-80 60-86 70 70-75 50-65 60-70 60-70 55-65 65-75	Well drained Well drained Well drained Peaty Well drained Peaty Well drained Well drained Peaty Peaty Peaty Peaty Well drained Peaty Well drained Peaty Well drained Peaty Peaty Well drained Peaty	1/16" S 1/8" S JC 1/16" S 1/4" 1/16" S 1/16" S 1/16" S S 1/16" S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks). Usually sown in situ.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera Beta Betula Bignonia Billadiera	HP HP HSh HSh HHP HP HHSH HP HHSH GSh HHP HB GP HSh HP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180 30-90 14-21 30-90 30-90	L L L	x x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 70-80 60-86 70 70-75 50-65 60-70 65-75 60-70	Well drained Well drained Peaty Well drained Well drained Well drained Well drained Well drained Peaty Peaty Peaty Well drained Peaty Sandy peat	1/16" S 1/8" S JC 1/16" S 1/4" S 1/16" S 1/16" S S 1/14" S S S S S S S S S	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks). Usually sown in situ.
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera Beta Betula Bignonia Billadiera Billbergia	HP HP HSh HSh HHP HHP HHSH HP HHAA GSh HHSH GSh HHP HB GP HSh HT GP HHP HHP	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 30-180 30-180 30-90 14-21 30-90 30-90 30-90 7-90	L L L L	x x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 55-65 70-75 70-80 60-86 70 70-75 50-65 60-70 65-65 65-75 60-70 55-65	Well drained Well drained Peaty Well drained Well drained Well drained Well drained Well drained Peaty Peaty Peaty Well drained Peaty Well drained Peaty Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Well drained Peaty Well drained Peaty Well drained Peaty Sandy peat Peaty	1/16" s 1/8" s JC 1/16" s 1/4" s 1/16" s 1/16" s 1/16" s s s J/16" s s s s s s s s s s s s s s	See No. 5. See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks). Usually sown in situ. See No. 14. (10 weeks).
Atropa Aubrieta Aucuba Azalea Baileya Balsamorrhiza Banksia Baptisia Basil Bauhinia Beaufortia Beaumontia Belamcanda Bellis Beloperone Berberis Bergenia Beriandiera Beta Betula Bignonia Billadiera	HP HP HSh HSh HHP HHSH HP HHSH HP HHB GSh HHP HB GP HSh HP HB GP HSh	21-30 14-21 30-90 50-90 7-30 14-42 30-90 7-10 21-42 14-60 7-30 15-60 14-60 10-15 30-180 60-180 30-90 14-21 30-90 30-90 30-90 30-90	L L L L	x x x x x x x	50 65-75 65-70 55-60 60-65 65-70 70-75 55-65 70-75 70-80 60-86 70 70-75 50-65 60-70 65-65 65-75 60-70 55-65	Well drained Well drained Well drained Peaty Well drained Peaty Well drained Well drained Well drained Peaty Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Peaty Well drained Peaty Peaty Peaty Peaty Peaty Sandy peat Peaty Well drained	1/16" s 1/8" s JC 1/16" s 1/4" s 1/16" s 1/16" s 1/16" s s 1/16" s s s s s s s s s s s s s s	See No. 5 or No. 6. Keep shaded from direct sun. See No. 5. Soak then chip. See Nos. 13 and 12. Can be sown situ See No. 13. (Soak 48 hours in hand hot water). See No. 5. See No. 5. Fibrous 70-75F, tuberous 65-70F. See No. 14. (Pre-chill for 7 days). Reduce soil temperature at night. See No. 5. See No. 14. (8 weeks). See No. 14. (Pre-chill for 2 weeks). Usually sown in situ. See No. 14. (10 weeks).

Blandfordia	HHP	30-90+		Χ	60-70	Sandy peat	JC	
Bletilla	ННР	30-365	L	Χ	65-70	Peaty	S	See No. 5.
Bmwa (Musa)	GP	7-180		Х	70-80	Peaty	1/2"	See No. 2.
Boea	GP	20-60	L	Х	70-75	Peaty	S	See No. 5.
Boronia	GSh	30-60	L		65-75	Peaty	S	See No. 5.
Brachycombe	нна	10-18			70	Well drained	JC	
Brimeura	HBb	30-60		Х	60-65	Sandy peat	JC	
Bromeliads	GP	7-90	L	Х	60-70	Peaty	S	See No. 5.
Browallia	GP	14-21	L		75	Peaty	S	See No. 5.
Brunfelsia	GP	30-90		Х	70-80	Well drained	JC	
Buddleia	HSh	20-30	L		70-75		S	See No. 14. (Pre-chill for 4 weeks).
Bulbinella	н/ннвв	30-90	_	Х	55	Well drained	JC	
Buoeurum	HSh	14-60				Well drained	JC	
Bupthalmum	HP	14-30	L			Well drained	S	
Биренатшиш	111	14 50	-		10 13	well dialied	5	
Cabbage & Kale		14-21				Peaty	1/8"	Can be sown in situ
Cacti	GP	5-180	L	Χ		Peaty	S	See No. 9.
Caesalonia	HhSh	14-120		Х	75-80	Well drained	1/4"	See No. 13. (Soak 48 hours in hand hot water).
Cainellia	HSh	30-90		Χ	70-75	Peaty	1/4	See No. 13 . May also benefit from No. 14.
Calanddnia	ННА	5-14			55-60	Well drained	1/8"	Can be sown in situ
Calceolaria	GB	14-21	L	Χ	65-75	Peaty	S	Outdoor varieties keep temperature below 60'F.
Calendula	HA	10-14	D		-70	Any	1/4"	Can be sown in situ, or autumn for winter greenhouse flowers.
Calibanus	GP	30-120	L	Χ	70-80	Peaty	S	
Calliopsis	HA	14			60-65	Weil drained	1/8"	Can be sown in situ
Callirhoe	HP	30-180+	L	Х	50	Well drained	S	Can be sown in situ or a cold frame.
Callistemon	HHSh	14-60	L		55-65	Peaty	S	See No. 5.
Calluna	HSh	30-60	L	Х	65-70	Peaty	S	See No. 14. (Pre-chill for 4 weeks).
Calocedrus	HT	30-90	L		50-60	Peaty	JC	See No. 14. (Pre-chill for 4 weeks).
Caltha	HP	30-90		Х	55-60	Peaty	1/16"	Keep compost slighty moist.
Camassia	HBb	30-180		Х	55-60	Well drained	1/16"	
Campanula	нР, НВ	14-28	L		60-70	Peaty	S	See No. 5.
Campsis	HHSh	30-90		Х	70-75	Well drained	S	See No. 14. (Pre-chill for 2 months).
Canarina	GP	30-180		Х	65-75	Well drained	JC	
Candytuft	на, нр	10+15			68-85	Well drained	1/4"	Can be sown in stiu. Perennials (60-65F) can be slow and irregular.
Canna	ННР	21-60		Х	70-75	Peaty	1/4"	See Nos 12 & 13, chip and soak for 48 hours.
Capsicum	GA	21-30	L		70-75	Peaty	S	•
Caragana	HSh	14-21	L		65-70	Well drained	S	See No. 13.
Cardiocrinum	НВЬ	90-730	_	Х	50	Peaty	1/16"	See No. 6.
Cardiospermum	нна	21-30				Well drained	1/2"	360 101 01
Carica	GSh	30-120		Х	75	Peaty	1/8"	See No. 13. (Soak for 40 hours).
Carlina	HP	30-120	L	21		Well drained	1/6" S	000 No. 10. (000A 101 40 HOULS).
Carrina		30-60		v				Soo No. 15 (1 month at 701E than A months in fair) No. 15
*	HT		L	Х	65-70	Well drained	S 1/4"	See No. 15. (1 month at 79'F then 4 months in frig.) or No. 16.
Carthamus	HA	12-18		1.		Well drained	1/4"	Can be sown in stiu
Caryopteris	HSh	30-90		Х		Well drained	JC	
Cassia	GSh	7-90				Well drained	1/8"	See No. 12.
Casuarina	GT	30-90			65	Well drained	JC	
Catalpa	HT	14-30	L	Χ	60-70	Peaty	S	Give seedlings good ventilation to prevent damping off.
Catananche	HP	21			65-75	Well drained	1/16"	
Catharanthus	GA/HHA	15-20	D		70-75	Peaty	1/8"	
Ceanothus	HSh	30-60	L		65-70	Well drained	S	Soak overnight then treat as No. 14 for 2 weeks.
Cedrus	HT	14-60	L	Χ	60-65	Well drained	S	Soak for 2-3 hours then treat as No. 14 for 3 weeks.
Celosia	GA	10-15	L		70-75	Well drained	JC	Do not sow too early - likes warm bouyant conditions.
Centaurea	HP, HA	7-14	D		60-70	Well drained	1/16"	
Centranthus	HP	21-30			60-70	Well drained	JC	Can be sown in situ.
Cepalaria	HP	21-60			55-65	Well drained	1/4"	Can be sown in situ.
Cephalilitrum	нна	14-21			65-75	Well drained	JC	
Cephalotaxus	HSh	14-60		Х	60-65	Peaty	JC	
Cerastium	HP	5-10			60	Well drained	1/16"	

Ceratotheca	нна	8-14			70-75	Well drained-	1/8"	
Cercis	HSh	30-90	L	Х		Well drained	JC	See No.13. Soak in hand hot water then No. 14 for 2-3 months.
Cerinthe	нна-	7-14			60-65	Well drained	1/16"	Can be sown in situ
Chaenomeles	HSh	70-90	L	Х	55-65	Well drained	S	See No. 14. (Pre-chill for 7-10 weeks).
Chamaecyparis	нт, ннт	30-60	L		50-60	Peaty	JC	See No 14. (Pre-chill1 for 3 weeks).
Cheiranthus	НВ	14-21			65-75	Well drained	1/8"	Sow in a reserve bed, pick out 6" apart. Plant out in Oct.
Chelidonium	HP	30-365		Х	55-65	Well drained	1/8"	See No. 16.
Chelone	HP	14-42			55-65	Well drained	1/16"	Needs good drainage.
Chiastopholum	HP	30-60			55	Well drained	S	Seeds very small.
Chimonanthus	HSh	63-90	L	Х	50-60	Well drained	S	See No. 14. (Pre-chill for 5-8 weeks).
Chionanthus	HSh	30-180	L	Χ	60-70	Well drained	S	See, No4. (Pre-chill for 1 month)
Chionodoxa	HBb	30-90		Χ	55	Well drained	1/4"	
Chlorogalum	HBb	30-90		Χ	55-80	Well drained	1/8"	See No. 6.
Chrysanthemum		10-18			60-70	Peaty	1/8"	Annuals can be sown in situ. HP's reduce temperature at night.
Cimicifuga	HP	30-365		Х	55-60	Well drained	1/16"	
Cineraria	GP	14-21	L	X	70	Well drained	JC	
Cirrhopetalum		30-180	L	Х	65-70		S	
Cirsium	HP	15-18 30-180		Х		Well drained Well drained	1/8"	
Cissus	GSh HSh	7-30	L	Λ		Peaty	JC S	See No., 5.
Citinus	HSh	30-90	ш	Х	55-60	Peaty	1/16	Chip and soak for 12 hours. Pre-chill 6-9 weeks.
Cladanthus	на	30-35		21		Well drained	JC	only and sour for 12 hours. The chill of y weeks.
Clarkia	HA	21			-	Well drained	1/4"	Best sown in situ, as sturdier plants are produced.
Claytonia	на	14-21			65-70	Well drained	1/8"	
Clematis	HP	30-270+		Х		Well drained	1/8"	See No's. 6 & 16.
Cleome	нна	10+14	L			Well drained	S	See No. 14. (Pre-chill for 2 weeks).
Clerodendron	Hsh	60-90	L	Х	65-70	Well drained	S	See No. 14. (Pre-chill for 4-6 weeks).
Clerodendrum	GSh	21-60		Х	70-75	Well drained	1/8"	
Clianthus	GSh	14-42			65-70	Well drained	1/16"	See No. 13.
Clintonia	HP	30-90			55-60	Sandy peat	JC	Keep compost always just moist.
Clitoria	GP	15-20			70-75	Well drained	1/16"	See Nos. 12 and 13. (Chip and soak for 24 hours).
Clivia	GP	7-21			80-85	Peaty	1/4"	Sow immediately. See No. 3
Cobaea	нна	21-30			70-75	Well drained	1/16"	Stick the seed vertically into the compost.
Coccoloba	GSh	10-21			65-70	Well drained	1/4"	See No. 13. (Soak for 24 hours).
Codonopsis	HP	7-42	L		60-70	Slighty acid	S	
Coffea	GSh	42-56	L		75	Peaty	S	See No. 2. (Soak tor 48 hours).
Colchicum	HBb	30-365		Χ	55-65	Peaty	1/8"	See No. 16.
Coleus	HHP	10-20	L		65-75	Peaty	S	Indoors, likes to be warm with plenty of bright light.
Collinsia	ННА	14-21			-	Well drained	1/4"	Best sown in situ, thin out to 6'.
Collomia	HA	21			-	Well drained	1/8"	Best sown in situ, thin out to 6".
Columnea	GP	30-120	L	Х	72-75	Peaty	S	
Colutea	HSh	7-21				Well drained	1/16	Chip and soak. See Nos. 12 and 13.
Commelina	HHP GP	30-37 10-40	L	Х	70 75-00	Wall drained Wall drained	1/8" S	
Conophytum Convallaria	HP	60-365+		Х		Wall drained	JC	See No. 16.
Convaliaria	HA	5-14	11	Λ	70-80	Well drained	1/8"	Chip (12) or soak (13) the seeds.
Cordyline	GP	30-90				Peaty	1/16"	See No. 13. (Soak for 10 minutes in hand hot water).
Cordyline	HHSh	30-60		Х	65-70	Peaty	1/16	
Coreopsis	HP	20-25	L			Wall drained	S	Annuals can be sown In situ
Cornus	HSh	90-730	L	Х		Well drained	S	See No.15. (2 months at 70F then 3 months in frig) or No. 16.
Coronilla	HHSh	30-60				Well drained	JC	
Correa	HHSh	30-90		Х		Wall drained	JC	
Cortaderia	HP	14-21	L		60-75	Peaty	S	See No. 5.
Corydalis	HP	30-60	L		50-60	Well drained	S	
Cosmos	нна	5-10			68-86	Well drained	1/8"	Can be sown in situ
Cotoneaster	HSh	180-365	L	Х	70	Acid Peaty	S	See No.15. (3-5 months at 70'F then 3 months in frig) or No. 16.
Cotula	нна	14-42			50	Well drained	1/16"	
Crambe	HP	21-42			-	Well drained	1/2"	Best sown In situ.
Craspedia	ННА	14-30			70-75	Peaty	1/8"	Can be sown in situ.

Crataegus	HSh	180-730	т.	Х	50-60	Well drained	S	See No.15. (3-5 months at 70'F then 3 months in frig) or No. 16.
Crepis	на	5-14	-		70-80	Wed drained	JC	the notion (8 6 months at 70 2 then 8 months in 111g) 62 not 10.
-				17	55-65			a N 12 (a 1 5 - 2 1)
Crinodendron	H/HHSh	30-120		Х		Well drained	JC	See No.13. (Soak for 3 hours).
Crocosmia	HP	30-90			55-60	Well drained	1/16"	
Crocus	HBb	30-180		Χ	55-65	Well drained	1/8"	
Crossandra	GP	25-30	L	Χ	75-80	Peaty	S	See No. 5.
Crotalaria	GSh	21-30			65-75	Well drained	1/16"	See No. 13. (Soak for 2 hours)
Cryptomeria	HT	30-60		Χ	55-65	Peaty	1/16	
Cryptostegia	GCI	30-90		Χ	65-75	Well drained	1/16"	See No. 13. (Soak for 2 hours)
Cunonia	GSh	30-60			70-75	Peaty	1/16"	
Cuphea	HHP	8-10	L		70	Peaty	S	
Cupressus	HT	30-90	L	Χ	65-75	Peaty	S	See No.14. (Pre-chill for 3 weeks).
Cyananthus	HP	14-60	L		60-65	Peaty	S	See No. 5.
Cycad	GP	30-90		Х	70-75	Well drained		Half bury the seed lengthwise.
Cyclamen	GP	30-60	D	Х	55-60	Peaty	1/4"	Keep moist and in total darkness.
Cyclamen	HP	30-180	D	Х	55-60	Peaty	1/4"	See No. 6.
Cynara	HP	14-30			50-55	Well drained	1/8"	Can be sown In situ.
Cynoglossum	на	5-10	D		65-75	Peaty	1/4"	
Cyperus	ннр	25-30	-		70-75	Peaty	JC	Keep the compost slighty moist.
Cyphomandra	GP	20-25			70-75	-	1/16"	Reep the compost strying morse.
				17		-		a I.V. 12 (a 1 5 - 0 1 - 0)
Cyphostemma	GP	30-60		X	70	Well drained	1/4"	See' No. 13. (Soak for 2 hours).
Cypripedium	HP	30-365	L	Χ	65-70	-	S	See No. 5. Very difficuft outside the laboratory.
Cyrtanthus	GP	30-90		Χ	55-65	Peaty	S	Keep the compost silghty moisty
Cytisus	HSh	25-30	L		70-75	Well drained	S	See No.13. Transplant to final quarters while still small.
Daboecia	HSh	30-120	L	Χ	55-65	Acid peat	S	Never allow compost to dry out.
Dahlia	HHA	5-20			65-70	Peaty	1/16"	Do not let the compost dry out.
Daphne	HSh	150- 365	L	Χ	50-60	Well drained	S	See No. 15.(2 months at 70F then 3 months in the frig)
Darlingtonia	HP	30-90		X	75-80	Peaty	C	De not let the connect day out Con also No. 5
	111	30 30		Λ	13-00	reacy	S	Do not let the compost dry out. See also No. 5.
Datura	ннзн	21-42		Λ	55-65	Well drained	1/8"	no not let the compost dry out. See also No. 5.
				X			1/8"	See No. 15.(3-4 months warin moist, 3- months frig.).
Datura	HHSH	21-42			55-65	Well drained	1/8"	
Datura Davidia	ннѕн нт	21-42 300-365		х	55-65 50-65	Well drained Peaty Well drained	1/8"	
Datura Davidia Decaisnea	HHSH HT HSh	21-42 300-365 30-180	L	X X	55-65 50-65 55-60	Well drained Peaty Well drained	1/8" 1/4 1/4	See No. 15.(3-4 months warin moist, 3- months frig.).
Datura Davidia Decaisnea Delonix Delosperma	HHSH HT HSh GT HHP	21-42 300-365 30-180 30-90 10-40	L D	X X	55-65 50-65 55-60 75-85	Well drained Peaty Well drained Peaty	1/8" 1/4 1/4 1/16" S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours).
Datura Davidia Decaisnea Delonix Delosperma Delphinium	HHSH HT HSh GT HHP	21-42 300-365 30-180 30-90 10-40 14-28		x x	55-65 50-65 55-60 75-85 75	Well drained Peaty Well drained Peaty Well drained Peaty	1/8" 1/4 1/4 1/16" S 1/16"	See No. 15.(3-4 months warin moist, 3- months frig.).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium	HHSH HT HSh GT HHP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90		x x	55-65 50-65 55-60 75-85 75 50-55 75-80	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16"	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella	HHSH HT HSh GT HHP GA H/HHP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90		x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16"	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus	HHSH HT HSh GT HHP GA H/HHP HHA, HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21		x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" 1/16"	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia	HHSH HT HSh GT HHP HP HP HP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30	D	x x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Well drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180		x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-70 60 55-60	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Well drained Well drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" 1/16" JC JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60	D	x x x x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-70 60 55-60 70-75	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Well drained Well drained Well drained Well drained Peaty	1/8" 1/4 1/4 1/16" S 1/16" 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180	D L	x x x x x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-70 60 55-60 70-75 55-60	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC JC JC JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56	D L	x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60 70-75 55-60 65-70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Well drained Well drained	1/8" 1/4 1/4 1/16" s 1/16" 1/16" 1/16" JC JC JC JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180	D L	x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 70-75 55-60 65-70 60-65	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Well drained Well drained Well drained Well drained Well drained Peaty Well drained Well drained Well drained Well drained Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC JC JC JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56	D L	x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 70-75 55-60 65-70 60-65	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Well drained Well drained	1/8" 1/4 1/4 1/16" s 1/16" 1/16" 1/16" JC JC JC JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180	D L	x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 70-75 55-60 65-70 60-65	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Well drained Well drained Well drained Well drained Well drained	1/8" 1/4 1/16" S 1/16" 1/16" JC JC JC S S S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP HP HP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180 30-90	L L	x x x x x x x x x	55-65 50-65 55-60 75-85 75 50-55 75-80 65-70 60-75 55-60 65-70 60-65 50-60	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Well drained Well drained Well drained Well drained Well drained	1/8" 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP HP HP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180 30-90 15-20	L L L	x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60 55-60 70-75 55-60 65-70 60-65 50-60 60-65	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC JC JC JC JC JC S S S JC S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP HP HP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-180 30-180 30-90 15-20 10-15	L L L	x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 50-60 60-65 60-70 75-80	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty	1/8" 1/4 1/16" S 1/16" 1/16" JC JC JC JC JC JC JC JC S S JC S JC S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP GP HP GP HP GP HP GP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180 30-90 15-20 10-15 30-90	L L L	x x x x x x x x x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 50-60 60-65 60-70 75-80	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty	1/8" 1/4 1/16" S 1/16" 1/16" JC JC JC JC JC JC JC JC S S JC S JC S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon	HHSH HT HSh GT HHP GA H/HHP HHA, HP HHA HP GP HP GP HP HHP GP HP GP HP GP HP GP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-90 15-20 10-15 30-90 30-90	L L L	x x x x x x x x x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60-75 55-60 65-70 60-65 50-60 60-65 60-70 75-80 70-75 70-75	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty 1/2 peat, 1/2 s	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC JC JC JC JC S S JC S JC S JC S JC S	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP HP GP HP HHP HP H	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180 30-90 15-20 10-15 30-90 30-90 21-36	L L L	x x x x x x x x x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60-75 55-60 65-70 60-65 50-60 60-65 60-70 75-80 70-75 70-75	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty 1/2 peat, 1/2 s Peaty Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena	HHSH HT HSh GT HHP GA H/HHP HHA, HP HHA HP GP HP GP HP GP HP HP HHP HHP HHP HHP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 14-56 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90	L L L L	x x x x x x x x x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60-70 65-60 60-65 50-60 60-65 60-70 75-80 70-75 55-65	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty 1/2 peat, 1/2 s Peaty Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena Diplolaena Dipsacus	HHSH HT HSh GT HHP GA H/HHP HHA, HP HHA HP GP HP GP HP HP GP HP HP GP HP HHA HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90 30-90 4-30	L L L L	x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 60-70 75-80 70-75 55-65 7 -80	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Featy Peaty Peaty Peaty Peaty Peaty Well drained Peaty Well drained Peaty Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5. See No. 2.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena Diplolaena Dipsacus Disporum	HHSH HT HSh GT HHP GA H/HHP HHA, HP HHA HP GP HP GP HP HHP HP HP, HB HHA GP HP HP HP HP HP HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90 30-150 4-30 30-180+	L L L L	x x x x x x x x x x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 60-70 65-60 60-65 50-60 60-65 60-70 70-75 70-75 55-65 7 -80 -80 -80 -80 -80 -80 -80 -80	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty 1/2 peat, 1/2 s Peaty Well drained Peaty Well drained Peaty Well drained Peaty	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). See No. 5. Can be sown in situ. See No. 5. See No. 2.
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena Diplolaena Dipsacus Disporum Dizygotheca	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP GP HP GP HP HHP HHP HHP HHP HH	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90 30-90 30-150 4-30 30-180+ 20-30	L L L L	x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 60-70 70-75 70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty Peaty Well drained Peaty	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). Can be sown in situ. See No. 5. See No. 2. Best sown in situ See No. 14. (Pre-chill for 6 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena Diplacena Dipsacus Disporum Dizygotheca Dodecatheon	HHSH HT HSh GT HHP GA H/HHP HHA, HP HHA HP GP HP GP HP GP HP HP HP HP HP HP HP HP HP HHA HP	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90 30-150 4-30 30-180+ 20-30 90-365	L L L L	x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 60-70 75-80 70-75 55-65 7 -80 - 55-65 70-70 60-70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty Peaty Well drained	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). Can be sown in situ. See No. 5. See No. 2. Best sown in situ See No. 14. (Pre-chill for 6 weeks).
Datura Davidia Decaisnea Delonix Delosperma Delphinium Desmodium Dianella Dianthus Diascia Diceritra Dichorisandra Dictamnus Didymocarpus Dierama Dietes Digitalis Dimorphotheca Dionaea Dioon Dioscorea Diplarrhena Diplolaena Dipsacus Disporum Dizygotheca	HHSH HT HSh GT HHP HP GA H/HHP HHA, HP HHA HP GP HP GP HP GP HP HHP HHP HHP HHP HH	21-42 300-365 30-180 30-90 10-40 14-28 30-90 30-90 14-21 14-30 30-180 7-60 30-180 30-180 30-90 15-20 10-15 30-90 30-90 21-36 30-90 30-90 30-150 4-30 30-180+ 20-30	L L L L	x x x x x x x x x x	55-65 50-65 55-60 75-85 75-80 65-70 60-70 55-60 60-65 50-60 60-65 60-70 70-75 70	Well drained Peaty Well drained Peaty Well drained Peaty Wall drained Well drained Peaty Peaty Peaty Peaty Peaty Well drained Peaty	1/8" 1/4 1/4 1/16" S 1/16" 1/16" JC	See No. 15.(3-4 months warin moist, 3- months frig.). See No. 13. (Soak for 24 hours). High temps. cause dormancy. See No. 14. (Pre-chill for 2 weeks). See No. 14. (Pre-chill for 6 weeks). See No. 14. (Pre-chill for 4-8 weeks). Can be sown in situ. See No. 5. See No. 2. Best sown in situ See No. 14. (Pre-chill for 6 weeks).

Doryanthes	ННР	30-60			65	Posty	JC	See No. 13. (Soak for 3 hours).
Draba	HP	30-90		Х	55	Peaty Well drained	JC	See Nos. 6 and 14.
Dracaena	GSh	30-180	L	X	75-85	Well drained	s	Keep the compost slightly moist
Dracunculus	HP	30-180		X	55-65	Peaty	JC	Keep the compost slightly moist
Drosera	GP	30-90	L		55-65	Peaty	s	See No. 5.
Dryas	HP	50-180	_	Х	60-70	Well drained	JC	See No. 6.
Duchesnia	HP	30-90	L	Х	55-65	Well drained	JC	
Duranta	GSh	30-60				Peaty	JC	
Eccremocarpus	HP	30-60		Х	-60	Well drained	JC	Cover the seed slightly with silver sand
Echeveria	ННР	21-90	L	Х	55-65	Well drained	JC	
Echinacea	HP	10-21	L		70-75	Peaty	1/8"	Reduce soil temperature at night.
Echinops	HP	15-60			65-75	Peaty E	1/16"	
Echium	HA	7-14			70	Well drained	1/4"	Can be sown in situ.
Edraianthus	HP	30-60	L		55-65	Well drained	1/16"	
Egg Plant	GA	10-21		Х	70	Peaty	1/8"	Keep the compost slightly moist
Elaeagnus	HT/HSH	140-180		Х	50-65	Well drained	1/16	See No. 15.(4 weeks warm moist, 8-12 weeks frig.).
Emilia	нна	8-15			70	Well drained	1/16"	
Emnurus	HP	30-365	L	Χ	55-65	Well drained	JC	See No. 16.
Enkianthus	HSh	25-60	L	Χ	60-70	Peaty	S	See No. 14.(Pre-chill for 6 weeks).
Epilobium	HP	14-30			50-60	Well drained	1/8"	
Episcia	GP	25-40	L		70-80	Peaty	S	Seeds dust like. See also No. 5.
Eranthis	HBb	30-365		Х	60-68	Well drained	1/16"	See No. 6 and 14.
Erica	HSh	30-60	L	Х		-	S	See No. 14.(Pre-chill for 4 weeks).
Erica	GP	30-120	L	Х	60-70		S	See No. 5.
Erigeron	HP	15-20				Well drained	S	
Erinus	HP	20-25				Well drained	S	
Eriobotrya	HHSh	30-180				Well drained	JC	See No. 13. (Soak for 24 hours).
Eriophyllum	HP	14-42 5-90		v		Well drained	1/8"	Best sown outdoors and transplanted
Eryngium Erysium	HP HP	14-30	L	Х		Well drained Well drained	S 1/4"	See No. 6. Sow in situ.
Erythrina	HHSh	10-15			70-75	Peaty	1/8"	See No. 13. (Soak for 24 hours).
Erythronium	HBb	30-365		Х	50-60	Well drained	1/8"	See No. 6.
Eschscholtzia		14-21				Well drained	1/4"	Resents transplanting, best sown in situ.
Eucalyptus	HHSh, HT			Х	70-75		S	Sow seed and chaff together. See No. 14. (Pre-chill for 4 weeks).
Eucnide	нна	21-30			60-70	Well drained	1/8"	
Eucomis	GBb	20-25			70-75	Peaty	1/16"	
Euonymus	HSh	220-365		Х	50-65	Well drained	1/16	See No. 15.(8-12 weeks warm moist, 8-16 weeks frig.).
Eupatorium	HP	30-90		Х	55	Well drained	JC	
Euphorbia	HHA, HP, GS	Sh10-15		Х	70-80	Well drained	1/4"	Pre chill HPs for 7 days and then soak for 2 hours.Sow in lime free compost (Ericaceous).
Eustoma	ННР	10-21	L		68-77	Well drained	S	
Exacum	GA	15-20	L		70-75	Peaty	S	Seed dust like. See No. 5.
Fagus	HT	30-365	L	Х	50-60	Well drained	JC	Soak overnight then see No. 14 (pre-chill for 6 weeks) or No. 16.
Fascicularia	HHP	30-120	L	Χ	60-70	Peaty	S	See No. 5.
Fatsia	HHSH	15-20			70-75	Peaty	1/4"	Keep the compost slightly moist.
Faucaria	GP	14-30		Χ	60	Well drained	JC	Just cover with sharp sand.
Feijoa	HHSH	21-42			55-60	Peaty	1/16"	Rinse seeds 3 times before sowing.
Felicia Amello		30				Well drained	JC	See No. 14. (Place in fridge for 3 weeks).
Felicia Berger		30			70	Well drained	JC	
Ferns	HP, GP	30-180	L		65	Peaty	S	See No. 4.
Ficus	GSh	15-90	L	Х	70-80	Peaty	S	See No. 5.
Filipendula	HP	30-90			55-60	Well drained	JC ~	
Flower Lawn	HP	30-180	L	Х			S	See Nos. 6 or 16.
Foeniculum	HP	10-14	D		65	Well drained	1/8"	Dislikes transplanting, sow in situ.
Forsythia	HSh	30-90	T	37		Well drained	1/4	Guy Wey C
Francoa	HHP	14-30	L	Х	⊃U-55	Peaty	S	See No. 6.

Fremontodendro	onHHSh/HSh	30-60			65-70	Well drained	JC	
Fritillaria	HBb	330-540		Х	55-M	Peaty	1/16"	See No. 6.
Fuchsia	HSh	21-90	L	Х	70-75	Peaty	S	See No.5. Soak in rainwater for 3-4 days. Keep compost moist.
Fuchsia	GP	21-90	L	Х	70-75	Peaty	S	See No. w. Soak in rain water for 3-4 days. Keep compost moist.
Gaillardia	HP, HHA	15-20	L	Х	70-75	Peaty	S	Reduce soil temperature at night.
Galega	HP	14-60			-	Well drained	<"	Best sown outdoors and transplanted.
Galtonia	HBb	15-20		Χ	70	Peaty	1/16"	
Gardenia	GSh	25-30			70-75	Peaty	1/8"	Use a lime free compost (Ericaceous).
Gaultheria	HSh	30-60	L		65-70	Peaty	S	See No.14. (Pre-chill for 4-10 weeks). Acid soils only.
Gaura	HHA	14-30			65-75	Well drained	1/16"	
Gazania	нна	8-21	D		60-65	Well drained	1/8"	
Genista	HSh	14-30			55-65	Well drained	JC	See No.13.
Gentiana	HP	14-180	D	Х	70-75	Lime free	JC	See No. 14. (Pre-chill for 2 months).
Gentianopsis	HA	21-30	L		-	Well drained	S	Sow outdoors and thin. Sensitive to root disturbance.
Geranium	ННР	3-21		Χ	70-75	Wd drained	JC	
Geranium	HP	30-90		Χ	50	Well drained	JC	See No. 6.
Gerbera	GP	15-25	L		70-75	Peaty	JC	Sow sharp end down, don't cover completly.
Gesneria	GP	14-21	L		70-75	Peaty	S	See No. 5.
Geum	HP	21-28+		Х	65-70	Peaty	1/16"	Reduce soil temperature at night.
Gilia	HA	17			-	Well drained	1/8"	Sow outdoors and thin out.
Gingko	HT	30-60	L	Х	70-75	Peaty	1/8	See No.14. (Pre-chill for 8-10 weeks).
Glaucidium	HP	30-90		Х	50-55	Peaty	JC	
Glaucium	HA	14-21	D		60-65	Well drained	JC	Transplant carefully, best sown In situ.
Gleditschia	HT	14-30			65-70	Well drained	JC	Chip and soak for 24 hours. See Nos. 12 and 13.
Globularia	HP	10-30	L		55	Well drained	S	See No. 14. (Pre-chil for 3 weeks).
Gloriosa	ННВВ	30			70-75	Peaty	1/16"	
Gloxinia	GP	15-30	L	Х	65-75	Peaty	S	See No. 5.
Gnaphalium	HP	14-21	L		60-70	Well drained	s	
Godetia	HA	7-14			60-65	Well drained	1/4"	Can be sown in situ
Gomphrena	нна	6-8	L		70-75	Well drained	JC	
Gourds	нна	15-29			80	Peaty	1/4"	Can also treat as No. 5.
Grass Tree	ННР	30-180	L	Х	65	Peaty	S	See No. 4.
Grasses	нР, нна	10-90	L	Х	60-75	Peaty	S	
Grevillea	HHSh	20-25	L		75-80	Well drained	S	See No. 13. (Soak for 24 hours).
Gunnera	HP	14-60		Х	70-80	Peaty	1/16"	
Guzmania	GP	7-90	L	Х	60-70	Peaty	S	See No. 5.
Gymnocladus	HT	30-90		Х	65-70	Well drained	1/4,	Chip and soak in warm water for 24 hours. See Nos. 12 and 13.
Gypsophila	KA, HP	10-15		Х	70	Peaty	JC	
Hacquetia	HP	30-180		Х	55	Wall drained	JC	See No. 16.
Haemanthus	GBb	7-42			60-65	Peaty	JC	
Hamamelis	HSh	270-365	L	Х	50-60	Peaty	1/16	See No.15. (3 months at 70'F then place in frig. for 3 months).
Haplopappus	HP	21-30			60-70	Well drained	1/8"	0 12 (0 1 5 - 21)
Hardenbergia	HHP	30-90		Х	55-65	Well drained	1/8"	See No. 13. (Soak for 24 hours).
Harpephyllum	GP	10-30			70-75	Peaty	1/4"	See No. 13. (Soak for 24 hours).
Hawothia	HHP	21-60	L		60-65	Well drained	JC	
Hbibiscus	HHP, GA	15-30		Х	75-80	Peaty	1/16"	Chip and soak. See Nos. 12 & 13.
Hebe	HHSh	15-30			70	Peaty	JC	
Hedychium	HHP	20-25			70-75	-	1/16"	See No. 13. (Soak for 2 hours).
Hedysarum	HP	14-42				Well drained	1/16"	Can be come in gith, Deluce and terrors to the late
Helanium Helianthemum	HP HP	7-10 15-20			70-75	Peaty Well drained	1/16" S	Can be sown in situ. Reduce soil temperature at night. See No. 5.
Helianthemum Helianthus	HA	10-14			70-75	Well drained Peaty	1/4"	Can be sown in situ.
Helichrysum	на	7-10	L		65-75	Well drained	1/4" S	
Heliophila	нна	14-21	-		60-65	Well drained	1/16"	
Heliopsis	HP	10-15			70	Well drained	1/16"	
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Freesia HHBB 25-30 X 65-75 Peaty Y4' See No. 7.

Heliotropium	HHP	14-42		Х	65-75	Well drained	1/16"	
Helipterum	HA	14-20			65-75	Peaty	1/16"	Can be sown in situ
Helleborous	HP	30-545		Х	60-65	Well drained		See No. 6. May need to go through two winters outdoors.
Hemerocallis	HP	21-49			60-70	Well drained	1/8"	See No. 14. (Pre-chill for 6 weeks).
Hemiphora	GP	30-120		Х	70-75	Peaty	JC	
Hepatica	HP	30-360	L		50-55	Well drained	JC	See No. 14. (Pre-chill for 3 weeks).
Heracleum	HP	30-90			-	Well drained	1/4"	Sow in situ. See No. 6.
Herniaria	HP	10-12			70	Well drained	JC	
Hesperis	HB	20-25	L		70-85	Peaty	S	Can be sown in s&LL Reduce soil temw=e at night.
Heuchera	HP	10-60	L	Х	65-70	Well drained	S	
Hibiscus	HSh	30-60		Х	70-75	Well drained	1/16	See No.13.
Hieracium	HP	21-30			50-60	Well drained	JC	
Hippeastrum	HHBB	30-42			75	Pemy	1/8"	
Hippophae	HSh	30-180	L	Х	55-65	Well drained	JC	See No.14. (Pre-chill for 14 weeks).
Hollyhock	HA, HP	10-12	L		60-70	Peaty	S	Can be sown in situ.
Holmskioldia	GSh	30-90		Х	60-65	Wei drained	JC	
Holodiscus	HSh	30-180		Х	60-65	Well drained	S	
Hosta	HP	30-90		Х	50	Peaty	1/16"	Keep compost slighty moist.
Humulus	HP	25-30			70-75	Well drained	1/4"	Can be sown in situ.
Hunnemannia	нна	15-20			70-75	Well drained	1/16"	Can be sown in situ. Makes a nice pot plant.
Hutchutinsia	HP	14-30			_	Well drained	1/4"	Sow in situ.
Hyoscymus	нв, на	14-42			_	Wed drained	1/8"	Sow in situ.
Hypericum	HSh	30-90		Х	50-55	Well drained	JC	
Hypoestes	GP	10-21			70-75	Well drained	JC	
Hyssopus	HP	14-42			60-70	Peaty	1/16"	
						-		
Iliamna	HP	30-360	L	Х	55-65	Well drained	1/16"	See No. 14. (Pre-chill for 3 weeks).
Impatiens	нна	21-30	L	Х	70-75	Peaty	S	See No. 5. Maintain a very high humidity until germination.
Incarvillea	HP	25-30			FF 6F	** 11 1 / 1		See No. 5.
IIICAI VIIICA		25 50			55-65	Well drained	S	see no. s.
Indigafera	HSh	30-60			65-70			Pour nearly boiling water over seed and leave to soak overnight.
				X				
Indigafera	HSh	30-60		Х	65-70	Well drained	1/16	Pour nearly boiling water over seed and leave to soak overnight.
Indigafera Indigofera	HSh HHSh	30-60 30-90		х	65-70 50 55-65	Well drained Wall drained	1/16 ye,	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours).
Indigafera Indigofera Inula	HSh HHSh HP	30-60 30-90 14-42		X X	65-70 50 55-65	Well drained Wall drained Well drained Well drained	1/16 ye, 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ
Indigafera Indigofera Inula Ionopsidium	HSh HHSh HP HA	30-60 30-90 14-42 14-21			65-70 50 55-65 55-60	Well drained Wall drained Well drained Well drained	1/16 ye, 1/16" 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea	HSh HHSh HP HA HHA	30-60 30-90 14-42 14-21 5-21		Х	65-70 50 55-65 55-60 70-85	Well drained Wall drained Well drained Well drained Peaty	1/16 ye, 1/16" 1/16" 1/4"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris	HSh HHSh HP HA HHA	30-60 30-90 14-42 14-21 5-21 30-545		Х	65-70 50 55-65 55-60 70-85 60-70	Well drained Wall drained Well drained Well drained Peaty Peaty	1/16 ye, 1/16" 1/16" 1/4"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis	HSh HHSh HP HA HHA HP HB	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90		X X	65-70 50 55-65 55-60 70-85 60-70 50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained	1/16 ye, 1/16" 1/16" 1/4" 1/4". 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion	HSh HHSh HP HA HHA HP	30-60 30-90 14-42 14-21 5-21 30-545 14-42		x x	65-70 50 55-65 55-60 70-85 60-70 50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained	1/16 ye, 1/16" 1/16" 1/4" 1/4". 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion	HSh HHSh HP HA HHA HP HB	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90		x x	65-70 50 55-65 55-60 70-85 60-70 50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained	1/16 ye, 1/16" 1/16" 1/4" 1/4". 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion	HSh HHSh HP HA HHA HP HB	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90		x x	65-70 50 55-65 55-60 70-85 60-70 50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained	1/16 ye, 1/16" 1/16" 1/4" 1/4". 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora	HSh HHSh HP HA HHA HP HB HBb	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120		x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora	HSh HHSh HP HA HHA HP HB GSh	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120		x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75	Well drained Wall drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120		x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia	HSh HHSh HP HA HHA HP HB GSh GSh HA GP	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180		x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 70-85 60-65 75-80	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Peaty Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" 1/16" JC 1/8" 1/8"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum	HSh HHSh HP HA HHA HP HB GSh GSh HA GP	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21		x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Peaty Well drained Peaty Well drained Peaty Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" 1/8" JC	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30		x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty Well drained Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC JC	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120	L	x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70 70-75 65-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty Well drained Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC JC JC 1/16"	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana	HSh HHSh HP HA HHA HP HB GSh GSh HA GP HP HSh GP H/HHSH	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-90	L L	x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70 70-75 65-75 60-50 50-60	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty Well drained Well drained Well drained Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" 1/8" JC JC 1/16" S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-90 30-180		x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70 70-75 65-75 60-50 50-60	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC 1/16" S JC	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 13. soak for 24 hours).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-90 30-180		x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70 70-75 65-75 60-50 50-60	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC 1/16" S JC	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 13. soak for 24 hours).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-90 30-180		x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 70-85 60-65 75-80 70 70-75 65-75 60-50 50-60 45-50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC 1/16" S JC	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 13. soak for 24 hours).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-90 30-180 30-180	L	x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 70-85 60-65 75-80 70 70-75 65-75 60-50 50-60 45-50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC JC JC 1/16" S JC S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus Kalanchoe	HSh HHSh HHP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-180 30-180 7-30	L	x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70-75 65-75 60-50 50-60 45-50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" JC 1/8" JC 1/16" S JC 1/16" S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus Kalanchoe Kallstroemia	HSh HHSh HHP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-120 30-180 30-180 30-180 10-180 10-180	L	x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 70-75 60-65 75-80 70 70-75 65-75 60-60 45-50 65-75 60-65 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC JC 1/16" S JC S S JC S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks). See No. 13. soak for 24 hours). See No. 14. (2-3 weeks). Place so that dividing line is at the top. Soak for 24 hours. High temperatures prevent germination. Likes good air circulation.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus Kalanchoe Kallstroemia Kalmia	HSh HHSh HHP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-180 30-180 7-30 14-21 30-60	L L	x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 70-75 60-65 75-80 70 70-75 65-75 60-60 45-50 65-75 60-65 70-75	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty Peaty Peaty Peaty Among the peaty Peaty Peaty Sandy peat	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" 1/16" JC 1/8" JC JC 1/16" S JC S S JC S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks). See No. 13. soak for 24 hours). See No. 14. (2-3 weeks). Place so that dividing line is at the top. Soak for 24 hours. High temperatures prevent germination. Likes good air circulation.
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus Kalanchoe Kallstroemia Kalmia Kalmiopsis	HSh HHSh HP HA HHA HP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-180 30-180 7-30 14-21 30-60 30-60	L L	x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70-75 65-75 60-50 45-50 65-75 60-65 70-60 45-50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Peaty Well drained Peaty Peaty Peaty Acid, sandy peat	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" JC 1/8" JC 1/16" S JC S JC S s JC S	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks). See No. 14. (2-3 weeks). Place so that dividing line is at the top. Soak for 24 hours. High temperatures prevent germination. Likes good air circulation. See No. 14. (Pre-chill for 3 months).
Indigafera Indigofera Inula Ionopsidium Ipomaea Iris Isatis Ixiolirion Ixora Jacaranda Jacobaea Jacobinia Jasione Jasminum Jatropha Jovellana Juglans Juniperus Kalanchoe Kallstroemia Kalmia Kalmiopsis Kaulfussia	HSh HHSh HHP HA HHA HHP HB HBb GSh GSh HA GP HP HSh GP H/HHSH HT HT HT	30-60 30-90 14-42 14-21 5-21 30-545 14-42 30-90 30-120 10-15 8-21 30-180 10-21 20-30 30-120 30-180 30-180 7-30 14-21 30-60 30-60 21-30	L L	x x x x x x x x x x x x x x x x x x x	65-70 50 55-65 55-60 70-85 60-70 50 70-75 60-65 75-80 70-75 65-75 60-50 45-50 65-75 60-65 70-60 45-50	Well drained Wall drained Well drained Well drained Peaty Peaty Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty Peaty Weil drained Well drained Sandy peat Well drained Well drained	1/16 ye, 1/16" 1/4" 1/4". 1/16" 1/16" JC 1/8" JC 1/16" S JC JC 1/16" S JC 1/16" S JC 1/16" S JC 1/16" S JC S AtS 1/4"'	Pour nearly boiling water over seed and leave to soak overnight. See No. 13. (Soak for 24 hours). Can be sown in situ Sow in situ. Chip and soak. See Nos. 12 and 13. See No. 6. May take two winters outdoors. Sow in situ. See No. 14. (Pre-chill for 3 weeks). See No. 14. (Pre-chill for 3 weeks). See No. 14. (2-3 weeks). Place so that dividing line is at the top. Soak for 24 hours. High temperatures prevent germination. Likes good air circulation. See No. 14. (Pre-chill for 3 months).

Miducia	111	10 21				well dialied	1/4	best sown in situ inin to 0.
Kniphofia	HP	10-30			70-75	Peaty	1/4"	Reduce soil temperature at night
Kochia	нна	10-15	L		70-75	Well drained	S	
Koelreuteria	HT	30-60	L	Χ	55-65	Peaty	JC	See No. 13. (Use boiling water) then No. 14 (place in frig. for 3 weeks).
Kolwitzia	HT	40-70	L	Х	65-70	Well drained	JC	Soak for 24 hours then No. 14. (Pre-chill for 4 weeks).
Labumum	HT	30-60			65-70	Well drained	1/16	Chip and soak. See NOS. 12 and 13.
Lagerstroemia	HHSh	15-20	L		70	Well drained	S	See No. 5.
Lagunaria	GT	30-180		Х	68-70	Peaty	1/8"	See No. 13. (Soak for 2 hours).
Lamium	HP	30-60		••	65-70	Well drained	JC	(odd. 101 1 1042)
	HHP	15-30	D		65-75	Well drained	JC	
Lampranthus			D	17				0 N 12 (0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lantana	HHP	42-60		X	70-75	Peaty	1/8"	See No. 13. (Soak 1 day in hand hot water).
Lapageria	HHP	30-90		Х	70-75	Peaty	1/8"	See No. 13. Soak for 3 days changing water 3/5 times per day
Lapeirousia	HBb	30-90		Х	55-60	Well drained	1/8"	
Larix	HT	30-90	L	Χ		Peaty	S	See No. 14. pre-chill for 1 Months.
Larkspur	HA	14-21	D		50-55	Peaty	1/16"	See No. 14.
Lasthenia	HA	17-21			-	Well drained	1/8"	Best sown in situ Thin to 4".
Lathyrus	HP	20-30		Χ	55-65	Peaty	1/4"'	Soak or chip the seeds. See Nos. 12 or 13.
Latris	HP	20-25			55-75	Well drained	JC	Reduce soil temperature at night.
Launus	HT	40-90	L	Χ	50-60	Peaty	JC	Soak for 24 hours then No. 14. (Pre-chill 1 month)
Lavatera	на, нв, н	IP15-20			70	Peaty	1/16"	
Lavender	HSh	21-90		Χ	55-65	Well drained	JC	See No. 14. (Pre-chill for 4-6 weeks).
Lawrencellida	нна	21-30	L		65-75	Well drained	S	
Layia	HA	8-30			70-75	Well drained	1/8"	
Ledum	HSh	30-60	L	Х	55-65	Acid peat	S	
Leea	GP	30-90		Х	75-80	Well drained	1/8"	See No. 13.
Leontopodium	HP	10-42	L	Х	50	Well drained	S	See No. 14. (Pre-chill for 3 weeks).
Leptosiphon	HA	17-21			55-65	Well drained	1/16"	Best sown in situ.
Leptospermum	HHSh	30-180		Х	60	Peaty	1/16"	
Leptosyne	HA	6-12	L		60-65	Peaty	1/8"	
Leschenaultia	GSh	30-120		Х	60-70	Well drained	JC	
Lewisia	HP	365+	L	Х	50	Well drained	S	See No. 14. (Pre-chill for 5 weeks).
Leycesteria	HSh	30-60			60-65	Sandy peat	JC	
Libertia	HP	30-180		Х	50	Well drained	1/8"	See No. 6.
Ligularia	HP	14-42		Х	55-65	Peaty	S	Keep compost slighty moist.
Lilies	HBb	30-365		Х	65-75	Peaty	JC	See No. 10 for more details.
Limnanthes	НА	14-21			60	Well drained	1/16"	Can be sown in situ
Limonium	HP, HHA	10-20	D		65-70	Well drained	JC	Suworowii needs total darkness to germinate
Linanthus	HA	17-21			_	Well drained	1/8"	Saw outdoors and thin out.
Linaria	HP	10-15			55-60	Well drained	JC	See No. 14. (Pre-chill for 3 weeks).
Linurn	HP	20-25			65	Well drained	1/8"	Best sown in situ.
Liquidambar	HT	14-365	L	Х	65-75	Peaty	S	See No. 14. (Pre-chill for 3 months). Don't let the seeds dry out.
Liriodendron	HT	60-365	L	Х	65-75	Peaty	s	See No. 16.
Lisianthus	ННР	10-21	L	**	68-77	Well drained	S	
Lithops	GP	10-21	L	Х	75-80	Well drained	S	
Lobelia	нна, ннр	15-20	L	X		Well drained	S	Place seed of a in fridge for 3 months (See No. 14).
		30-60	ш	Λ			JC	ridec seed of a in fridge for a months (see NO. 14).
Loiseleuria	HSh			v		Well drained		
Lomatia	HHSh	30-180	P	Х	60-65	Well drained	1/8"	Car ha annu in aitu
	HA	5-7	D	,.	70	Well drained	JC	Can be sown in sity
Lonas	****	4.0 -			60-70	Well drained	JC	See No. 14. Place in frig. for 3 months. Keep temp. below 75'F.
Lonicera	HSh	180+	L	Х				
Lonicera Lotus	ННР	14-30	L	Х	55-65	Well drained	JC	Transplant into 3" pots.
Lonicera			L		55-65 55-60	Well drained Well drained	JC JC	Transplant into 3" pots.
Lonicera Lotus	ННР	14-30	L	Х				Transplant into 3" pots. Can be sown in situ
Lonicera Lotus Luculia	ннр ннѕн	14-30 30-60	L D	Х	55-60	Well drained	JC	
Lonicera Lotus Luculia Lunaria	HHP HHSH HB	14-30 30-60 10-14		X X	55-60 70	Well drained Well drained	JC 1/8"	Can be sown in situ
Lonicera Lotus Luculia Lunaria Lupin	HHP HHSH HB	14-30 30-60 10-14 15-60	D	X X	55-60 70 55-65	Well drained Well drained Well drained	JC 1/8" 1/8"	Can be sown in situ Soak or chip the seeds. See Nos. 12 or 13.
Lonicera Lotus Luculia Lunaria Lupin Lychnis	HHP HHSH HB HP	14-30 30-60 10-14 15-60 21-30	D	x x	55-60 70 55-65 70	Well drained Well drained Well drained Well drained	JC 1/8" 1/8" S	Can be sown in situ Soak or chip the seeds. See Nos. 12 or 13. See No. 2. (pre-chill for 2 weeks).

Knautia HP 10-21 Well drained 1/4" Best sown in situ Thin to 6'.

Macropidia	GP	30-90	L		60-65	Peatv	S	See No. 5.
Magnolia	HT	120+	L	Х	50	Well drained	JC	See No. 14. Place in frig. for 4 months.
Mahonia	HSh	90-120	L	Х	50	Peaty	JC	See No. 14. (Pre-chill for 3 weeks).
Makus	нт	120-365		Х	50	Peaty	JC	Soak for 24 hours then No. 14. (Pre-chill for 14 weeks).
Malope	на	14-30	_	21	65-75	Peaty	JC	See No. 14. (Pre-chill for 3 weeks).
-						-	1/16"	See NO. 14. (FIE CHILL TOL 3 WEEKS).
Malva	HP	5-21			70	Peaty		0 - 1 - 1/0 1 - 1 1/0 1
Mandeville	HHSh	14-30			65-75	Well drained	JC	Sow in 1/2 sand and 1/2 peat.
Mandragora	HP	50-60			55-60	Peaty	1/8"	
Marigold	нна	5-14			70-75	Peaty	JC	
Matricaria	HP	5-21	L		65-75	Well drained	S	Reduce soil temperature at night.
Maurandia	HHP	14-21			65-70	Well drained	1/16"	
Meconopsis	HP	14-28		Χ	55-65	Peaty	S	Keep slightly moist. See also No. 5.
Melia	GT	30-180		Χ	55	Wall drained	1/8"	
Melianthus	HHSh	30-180		Χ	70-75	Peaty	1/16"	
Mentzelia	HA	5-21			55-60	Well drained	JC	
Menziesia	HSh	30-60			55	Sandy peat	S	Keep compost uniformly moist.
Merrtensia	HP	30-60		Χ	55-60	Well drained	1/16"	See No. 14. (Pre-chill for 3 weeks).
Mesembryanthe	rnHHA	15-20	D		65-75	Well drained	S	
Metrosideros	HHSh	30-90		Χ	60-60	Peaty	1/16"	
Mimosa	GP	21-30	L	Х	70-75	Well drained	S	See No. 13. (Soak for 20 minutes in almost boiling water).
Mimulus	ннр, нр	7-21	L		70-75	Peaty	S	See No. 14. (Pre-Chill for3 weeks). Then No. 5.
Mina	HHP	20-25			70	Well drained	1/4"	Chip and soak. See Nos. 12 and 13.
Mirabilis	нна	7-21	L		70	Well drained	S	
Moluccelia		21-35	L	Х	60	Well drained	JC	Pre-chill for 5 days then 40'F temp. night gives best results.
Momordica	нна	14-21			65-75	Peaty	1/8"	Sow seeds singly in 3' pots.
Monarda	HP	10-40			60-70	Peaty	JC	Reduce soil temperature at night.
Moraea	HHBB	30-90		Х	55-60	Well drained	1/8"	
Morina	HP	14-42			50	Peaty	1/16"	
Morus	HT	14-30	L		65-75	Peaty	S	See No. 5. or see No. 14. (Pre-chill for 1-3 months).
Mucuna	GP	21-90			65-75	Peaty	1/4"	
Muscari	НВЬ	42-60			60-65	Well drained	1/16"	
Mutisia	H/HHsh	30-90		Х	70	Well drained	1/16"	
Myosotidium	H/HHP	30-180		Х	65-70	Peaty	1/16"	
Myosotis	HB	14-30	D	Λ	65-70	Peaty	s	See No. 5 but keep in total darkness.
			D					Can be sown in sity
Myrrhis	HP	14-42		.,		Well drained	1/8"	
Myrtus	HHSH	30-90		Х	55-65	Peaty	JC	See No. 13.
		40.00					a (a c#	
Naranjilla	GP	10-30		Х		Peaty	1/16"	
Nasturtium	HA	7-12			65	Well drained	1/4"	Best sown in situ
Nemesia	нна	7-21			55-70	Peaty	S	See No. 5.
Nemophila	HA	7-21			55	Well drained	1/16"	Can be sown in situ.
Neperrthes	GP	30-90		Х		Peaty	S	Dont let compost dry out. See also No.5.
Nepeta	HP	7-21			60-70	Well drained	JC	Can be sown in situ.
Nerine	HHBB	14-21			65-70	Well drained	S	Sow immediately, deep moist and place in a polythene bag.
Nerium	GSh	30-90	L	Χ	65-75	Peaty	S	
Nertera	GP	30-90	D	Χ	65-70	Well drained	SC	See No. 8.
Nicandra	HA	15-20			70-75	Well drained	JC	
Nicotana	нна	10-20	L		70-75	Well drained	S	
Nierembergia	HHP	15-30		Х	70-75	Well drained	JC	
Nigella	HA	10-15			65-70	Well drained	1/16"	Best sown in situ. Resents transplanting.
Nolana	нна	14-30			60-70	Well drained	1/16"	Can be sown in situ.
Nomocharis	HBb	30-180	L	Х	45-50	Well drained	JC	See No. 16
Notholirion	HI/HHBB	30-180	L	Х	45-50	Well drained	JC	See No .16
Nyssa	HT	90-365	L	Х	50	Peaty	S	See No. 14. (Pre-chill for 3 months).

Ocimum HA 14-42 L 55-60 Well drained S

Oenothera	HP	15-30	L		65-70	Well drained	JC	
Olea	HHT/HT	30-120		Χ	65-70	Well drained	1/8"	
Olearia	H/HHSh	30-60	L		65-70	Well drained	S	
Omithogalum	GBb	30-180		Χ	55-60	Peaty	1/16"	See No. 6
Omphalodes	HP	14-42			65-75	Well drained	1/8"	
Onopordon	HP, HB	30-60			55-60	Well drained	1/4"	Can be sown in situ.
Onosma	HP	30-60			50	Well drained	1/16"	
Orchid	GP	90-365	L	Х	65-75	Well drained	S	
Orchis	HBb	90-365	L	Х	65-75	Well drained	S	
Orphium	GSh	21-42	L		65-70	Well drained	S	
Osteospermum	нна, нр	10-15	L		60-65	Well drained	JC	
Ostrya	HT	365+	L	Х	50-60	Well drained	JC	See No. 16.
Oxalis	HBb	14-60			55-68	Well drained	JC	
Pachypodium	GP	30-180	L	Х	65-75	Well drained	S	
Paeonia	HSh	270+	L	Х	70	Well drained	JC	See No. 15.
Paeonia	HP	365+	L	Х	50-60	Well drained	JC	See No. 16. Keep shaded and moist.
Palms	GP	60-180	ш	Х	75-80	Peaty	1/4"	See No. 2
			D		65-75	Well drained		
Pansy	HP	14-21	D	Х			1/16"	See No. 14. (Pre-Chill for 2 Weeks.)
Papaver	HP	10-30	D		55	Well drained	S	Best sown in situ. P. Orientale Needs light for germination.
Paradisea	HP	30-180		Χ	50	Well drained	1/16"	See No. 6
Parnassia	HP	30-180		Χ	55-65	Peaty	S	Stand seed pan in a saucer of water to keep soil always moist.
Parochetus	HP	30-90		Х	50	Well drained	1/16"	See No. 13.
Parthenocissus	HSh HSh	60-180	L	Χ	60-70	Well drained	JC	See No. 13 then 14. (Pre-chill for 6 week).
Passiflora	HHP	30-365		Χ	70-85	Peaty	1/4"	See No. 13. Give the seed container an occasional soaking.
Paulownia	HT	30-60	L		55-70	Peaty	S	No. 5
Pavonia	GSh	30-60		Χ	75	Peaty	1/16"	
Peanuts	GA	34170			70-75	Peaty	1/4"	Sow and place inside a polythene bag until germination.
Peltiphyllum	H P	30-90	L	Χ	55-60	Peaty	S	Stand seed pan in a saucer of water to keep soil always moist.
Penstemon	HP	18-21	L		55-60	Well drained	JC	See No.14
Pentas	GP	25-40			70-75	Peaty	S	See No.5
Peperomia	GP	15-30			70-75	Peaty	S	See No.5
Perilla	HHA	15-30	L		65-75	Peaty	S	
Petrea	GSh	30-60	L		65-75	Peaty	S	
Petunia	нна	10-21	L		70-75	Peaty	S	F1 hybrids and doubles may need 80F to germinate.
Phacelia	HA	12-30	D		55-65	Well drained	1/4"	Best sown in situ. Total dark required.
Phaeomeria	GP	30-90		Х	80	Well drained	1/8"	
Phaseolus	GP	30-60			65-70	Well drained	1/16"	Chip and soak. See Nos. 12 an 13.
Philadelphus	HSh	30-60			65-70	Well drained	JC	
Philodendron	GP	30-120		Х	75-80		1/16"	
Phlomis	HSh	30-90		Х		Well drained	JC	
Phlomis	HP	14-42			60	Well drained	JC	
Phlox-Annual	нна	10-21	D			Peaty	1/16"	Sow direct into pots as it resents transplanting.
Phlox-Perennia		25-30	D	Х	70	Peaty	1/16"	See No.14. (Pre-chill for 4 weeks).
	HP		D	Х		-		See NO.14. (FIE-CHIII IOI 4 WEEKS).
Phormium		30-180		Λ		Peaty	JC	
Phuopsis	HP	30-40	L			Well drained	S	
Phygelius	HP	10-14				Well drained	JC	
Phyllodoce	HSh	30-60	L			Peaty	S	
Physalis	HP	21-30	L		70	Well drained	S	
Physostegia	HP	21-30				Peaty	JC	Reduce soil temperature at night.
Phyteuma	HP	30-90		Χ	55-65	Well drained	JC	See No.6
Phytolacca	HP	30-60		Χ	65-70	Well drained	1/8"	
Picea	HT	30-60	L	Χ	55	Well drained	S	See No. 14. (Pre-chill for 21 days).
Pieris	HSh	30-70	L	Χ	65-70	Acid Peat	S	See No. 5.
Pilea	GP	14-60	L	Χ	65-75	Peaty	S	See No. 5.
Pinguicula	HHP	30-120	L	Χ	55	Peaty	S	See No. 5. Use a compost = peat and = sand.
Pinus	HT	30-60	L	Х	55-65	Well drained	S	Soak seed, then No14. (Pre-chill for 6 weeks).
Pittosporum	HHSh	30-60		Х	55	Well drained	1/16"	Place seeds in a bag and dip in boiling water for a few seconds.

Pittosporum	HHSh	30-60			55	Well drained	1/16"	Place seeds in a bag and dip in boiling water for few seconds.
Platycodon	HP	15-30	L		70	Wall drained	S	
Platystemon	HA	14-30			55-65	Wall drained	1/16"	Sow in situ
Plumbago	GP	25-30			70	Well drained	JC	
Plumneria	GP	30-180		Х	65-75	Peaty	1/16"	See No. 13.
Podolepis	нна	21-30	L		65-70	Wall drained	S	
Podophyllum	HP	30-180	L	Х	55-60	Peaty	JC	Pre-chill for 3 weeks. Keep compost always moist.
Polemonium	HP	20-25			70	Peaty	1/16"	Reduce soil temperature at night.
Polygala	HSh	30-60	L		60-65	Well drained	JC	
Polygonatum	HP	30-545		Х	50	Wei drained	1/16"	See No. 6.
Polygonum	нр, нна	21-60		Х	70-75	Peaty	1/16"	Do not overwater
Portulaca	нна	14-21	L			Well drained	S	
Potentilla	HP	14-30			65-70	Well drained	JC	
Poterium	HP	30-60		Х	50	Wall drained	JC	See No. 6.
Primula-indoon		20-25	L	Х	55-60	Peaty	S	P.Sinensis needs darkness for germination.
Primula-Outdoo		21-40	L	Х	60-65	Peaty	S	See No. 14. (Pre-chill for 3 weeks).
Proboscidia	GA/HHA		ь	Х		Peaty	1/4"	See NO. 14. (FIE-CHIII IOI S Weeks).
		15-42				-		Continualista.
Protea	ннт	30-90		Х		Peaty Well drained	1/4"	Sow immediately.
Prunella	HP	30-60		17	55-65		1/16"	0 1 1 1 1 1 N - 14 - (D 1 1 1 1 5 - 4 1 1 1)
Prunus	HT	120-365	L	X		Well drained	1/16"	Soak overnight then see No. 14. (Pre-chill for 4 months).
Pseudotsuga	HT	30-180	L -	Х	75	Peaty	S	See No. 14. (Pre-chifl for 8 weeks).
Psidium		30-60		Χ	70-75	-	JC	See No. 13.
Ptelia	HSh/HT	80-120			55-60	Well drained	1/8"	See No. 14. (Pre-chill for 3 weeks).
Pulmonaria	HP	30-42			60-65	Peaty	JC	
Pulsatilla	HP	30-180		Χ	60-70	Well drained	JC	See No. 6. Trim 'tails' off seeds before sowing
Punica	HHSH	30-40	L		70-75	Well drained	S	See No. 13
Pyracantha	HSh	40-180	L	Χ	50	Peaty	JC	See No. 14. (Pre-chill for 6 weeks).
Pyrethum	нна, нр	30-60		Χ	55	Well drained	JC	Doubleness of flowers increases in 2nd year.
Pyrola	HSh	30-90	L	Χ	55	Peaty	S	
Quercus	НТ	120-365	L	Х	50	Peaty	JC	Soak for 24 hours, then No. 14. (Pre-chill for 3 months).
Quercus	НТ	120-365	L	Х	50	Peaty	JC	Soak for 24 hours, then No. 14. (Pre-chill for 3 months).
Quercus Ramonda	НТ	120-365	L L	X X	50	Peaty Well drained	JC S	Soak for 24 hours, then No. 14. (Pre-chill for 3 months).
								Soak for 24 hours, then No. 14. (Pre-chill for 3 months). See No. 6.
Ramonda	НР	30-60		Х	55-60	Well drained	S	
Ramonda Ranunculus	НР НР	30-60 30-90	L	x x	55-60 50 55-60	Well drained	s 1/16"	
Ramonda Ranunculus Raoulia	НР НР НР НА/НВ/НР	30-60 30-90 30-90	L	x x	55-60 50 55-60	Well drained Well drained Well drained	s 1/16" s	See No. 6.
Ramonda Ranunculus Raculia Ratibida	НР НР НР НА/НВ/НР	30-60 30-90 30-90 21-42	L	x x	55-60 50 55-60 68-75	Well drained Well drained Well drained Well drained	s 1/16" s 1/8"	See No. 6.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria	HP HP HP HA/HB/HP GBb	30-60 30-90 30-90 21-42 30-60	L	x x	55-60 50 55-60 68-75	Well drained Well drained Well drained Well drained Well drained	S 1/16" S 1/8" JC	See No. 6.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia	HP HP HP HA/HB/HP GBb H/HHP	30-60 30-90 30-90 21-42 30-60 21-42	L	x x	55-60 50 55-60 68-75 70 60-65	Well drained	s 1/16" s 1/8" JC	See No. 6. Reduce soil temperature at night.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia	HP HP HP HA/HB/HP GBb H/HHP HB, HA	30-60 30-90 30-90 21-42 30-60 21-42 5-21	L	x x	55-60 50 55-60 68-75 70 60-65	Well drained	S 1/16" S 1/8" JC JC S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo	HP HP HP HA/HB/HP GBb H/HHP HB, HA	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60	L	x x	55-60 50 55-60 68-75 70 60-65 70 65-70	Well drained Peaty	S 1/16" S 1/8" JC JC S JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum	HP HP HA/HB/HP GBb H/HHP HB, HA GP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42	L	x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65	Well drained Peaty Peaty Well drained	S 1/16" S 1/8" JC JC S JC 1/8"	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour).
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30	L L L	x x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65 75-80	Well drained Peaty Peaty Well drained	S 1/16" S 1/8" JC JC S JC JC JC JC JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+	L L L	x x x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65 75-80 55-65 60-65	Well drained Peaty Peaty Well drained Peaty	S 1/16" S 1/8" JC JC S JC JC JC JC JC JC JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HHP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42	L L L	x x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65 75-80 55-65 60-65	Well drained Peaty Peaty Well drained Peaty Peaty Peaty Peaty Peaty Peaty	S 1/16" S 1/8" JC JC S JC 1/8" JC JC JC JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F).
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90	L L L	x x x x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65 75-80 55-65 60-65 55-60	Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Mell drained	S 1/16" S 1/8" JC JC S JC 1/8" JC JC S S S S S S S S S S S S S S S S S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90	L L L	x x x x x x x	55-60 50 55-60 68-75 70 60-65 70 65-70 60-65 75-80 55-65 55-60	Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Mell drained Peaty Peaty Acid Peat	S 1/16" S 1/8" JC JC S JC 1/8" JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhodochiton Rhodohypoxis Rhus	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90	L L L	x x x x x x x	55-60 50 55-60 68-75 70 60-65 70-65-70 60-65 55-65 60-65 55-60 50 65-70 70-75	Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained	S 1/16" S 1/8" JC JC S JC JC S JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13.
Ramonda Ranunculus Raculia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhodochiton Rhodohypoxis Rhus Ricinus	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HHP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 30-90 15-21	L L L	x x x x x x x	55-60 50 55-60 68-75 70 60-65 70-80 55-65 60-65 55-60 50 65-70 70-75 65-75	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Well drained	S 1/16" S 1/8" JC JC S JC 1/8" JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous.
Ramonda Ranunculus Raculia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HHP HSh HHP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 15-21 34179	L L L	x x x x x x x	55-60 50 55-60 68-75 70 60-65 70-80 55-65 60-65 55-60 50 65-70 70-75 65-75	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained	S 1/16" S 1/8" JC S JC JC JC S JC JC S JC JC S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HHP HSh HHP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 30-90 15-21 34179	L L L	x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 55-60 50 65-70 70-75 65-75 60-70	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Well drained Well drained Well drained Peaty Well drained Peaty	S 1/16" S 1/8" JC JC S JC 1/8" JC JC JC S JC JC S S JC S S S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea Rodgersia	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HP HSh HP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 30-90 15-21 34179 14-42 12-60		x x x x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 60-65 55-60 50 65-70 70-75 65-75 60-70 55-60	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Well drained Peaty Peaty Acid Peat Well drained Peaty Well drained Peaty Well drained Peaty Well drained Peaty Peaty Mell drained Peaty Peaty Peaty	S 1/16" S 1/8" JC JC S JC JC JC S JC JC S JC S S S S S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water. See No. 5.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea Rodgersia Rosa	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HHP HSh	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 30-90 15-21 34179 14-42 12-60 30-365+	L L L L L L	x x x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 60-65 55-60 50 65-70 70-75 65-75 60-70 55-60	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Peaty Peaty Acid Peat Well drained Peaty Well drained Peaty Well drained Peaty Well drained Peaty Well drained	S 1/16" S 1/8" JC JC S JC JC JC JC JC S JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water. See No. 5.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea Rodgersia Rosa Roscoea	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HHP HSh HHA	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 15-21 34179 14-42 12-60 30-365+ 30-365	L L L L L L	x x x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 60-65 55-60 50 65-70 70-75 65-75 60-70 55-60 55-60	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Peaty Well drained Well drained Well drained Peaty Well drained Peaty Well drained Peaty Well drained Pem Peaty Well drained Well drained	S 1/16" S 1/8" JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water. See No. 5. See No. 16 or No14. (Pre-chill for 3 months). See No. 16.
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea Rodgersia Rosa Roscoea Rothmannia	HP HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HP HSh HHA HT HHP HSh HP HSh	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 15-21 34179 14-42 12-60 30-365+ 30-365 30-90	L L L L L L L L L L L L L L L L L L L	x x x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 60-65 55-60 50 65-70 65-75 60-70 55-60 55-50	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Peaty Peaty Well drained Peaty Peaty Well drained Peaty Peaty Peaty Peaty Peaty Peaty	S 1/16" S 1/8" JC JC S JC 1/8" JC JC S JC S JC S S S JC	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water. See No. 5. See No. 16 or No14. (Pre-chill for 3 months). See No. 16. See No. 13. (Soak for 5 hours).
Ramonda Ranunculus Raoulia Ratibida Rechsteineria Rehmannia Reseda Rhaeo Rheum Rhodanthe Rhodatypos Rhodochiton Rhododendron Rhodohypoxis Rhus Ricinus Robinia Rochea Rodgersia Rosa Roscoea Rothmannia Rudbeckia	HP HP HP HA/HB/HP GBb H/HHP HB, HA GP HP HHA HSh HHP HSh HP HSh HHP HSh HP HSh HP	30-60 30-90 30-90 21-42 30-60 21-42 5-21 14-60 21-42 14-30 365+ 12-42 50-90 30-90 30-90 15-21 34179 14-42 12-60 30-365+ 30-365 30-90 34109	L L L L L L L L L L L L L L L L L L L	x x x x x x x x x x x x x x x x x x x	55-60 50 55-60 68-75 70 60-65 75-80 55-65 60-65 55-60 50 65-75 60-75 55-60 55 70-75 70-75 70-75 70-75	Well drained Peaty Peaty Well drained Peaty Peaty Acid Peat Well drained Well drained Peaty Peaty Well drained Peaty	S 1/16" S 1/8" JC JC S JC JC JC JC JC S JC JC JC S JC JC S JC JC S JC JC S JC S S S S	See No. 6. Reduce soil temperature at night. Extra care required when transplanting. See No. 13. (Soak for 1/2 hour). Can be sown in situ See No. 15. (3 months at 70F, 3 months chill, 3 months at 70'F). See No. 6. Keep shaded from direct sun. Lime free compost required. Chip or soak. See Nos. 12 and 13. These seeds are poisonous. See No. 13. Soak in hand hot water. See No. 5. See No. 16 or No14. (Pre-chill for 3 months). See No. 16. See No. 13. (Soak for 5 hours).

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10-21
Sagina
               HP
                                              55
                                                     Well drained
                                                                      JC
                          30-60
                                              70-75
                                                                      S
                                                                             See No. 5.
Saintpaulia
               GP
                                   T.
                                          Х
                                                     Peatv
                                                                      S
Salpiglossis
               HHA
                          15-30
                                   D
                                         Х
                                              70-75
                                                     Peatv
Salvia
               нна. на
                          10-14
                                   T.
                                              68-80
                                                     Well drained
                                                                      S
                                                                             For Patens & Superba see No. 14. (Pre-chill for 3 weeks).
                                         Х
                                                                      1/8"
               HHBB
                          30-90
                                              75
                                                                             See No. 13.
Sandersonia
                                         Х
                                                     Well drained
                                                                      1/16
                          30-90
                                              50-55
Sanguinaria
               ΗP
                                                     Well drained
                          30-60
                                                     Well drained
                                                                      S
Sanguisorba
               ΗP
                                              50-55
                          15-30
                                              -70
Santolina
                                                     Well drained
                                                                      JC
               HSh
Sanvitalia
                          10-21
                                              70
                                                     Well drained
                                                                             Take care when transplanting.
               HA
                                                                      S
                          10-21
                                              70
                                                     Well drained
                                                                             See No. 14. (Pre-chill for 3 weeks).
               HA, HP
                                                                      S
Saponaria
               HSh
                          30-120
                                              55-65
                                                     Peaty
                                                                      JC
Sarcococca
Sarracenia
                          30-90
                                              75-80
                                                     Peatv
                                                                      S
                                                                             See No. 14. (Pre-chill for 7 days) then No. 5.
                          15-60
                                                                             See No. 6.
Saxifraga
                                              65-75
                                                     Well drained
                                                                      JC
Scabiosa
                          10-15
                                                     Well drained
                                                                      1/16"
               НΑ
                                              70-75
Schefflera
                          20-30
                                              75
                                                                      1/16"
               GSh
                                                      Peatv
Schizanthus
                          7-14
                                              60-75
               GΑ
                                                     Peaty
Schizopetalon
               HHA
                          6-21
                                              60-65
                                                     Well drained
                                                                      1/16"
Schizostylis
               HBb
                          30-90
                                              55-60
                                                     Well drained
                                                                      1/16"
Scilla
                          30-180
                                              50
                                                     Peaty
                                                                      1/16"
                                                                             See No. 6.
               ΗP
Scutellaria
               ΗP
                          14-180
                                              50
                                                     Well drained
                                                                      JC
Sedum
               ΗP
                          15-30
                                              50
                                                     Well drained
                                                                             See No. 6.
Sempervwm
               ΗP
                          15-30
                                          Х
                                              70
                                                     Wei drained
                                                                      S
                          10-21
                                              65-75 Well drained
                                                                      1/16
Senecio
               нна
                                   Τ.
                          7-60
                                                                      S
Seguoia
               ΗT
                                              9/6/96 Peaty
                          30-40
Setcreasia
               HHP
                                              70
                                                     Peatv
                                                                      JC
Shortia
                          30-60
                                              60-65
                                                                      S
                                                                             See No. 14. (Pre-chill for 3 weeks).
               HР
                                                     Peaty
                                                                      1/8
Sidalcea
                          14-42
                                              50
                                                     Well drained
               HP
Silene
                          15-20
                                              70
                                                     Well drained
                                                                      JC.
                                                                                    be sown in situ...
               HР
                                                                             Can
                          14-21
                                                     Well drained
                                                                      1/8
Silvbum
                                              55-60
                                                                             Can
                                                                                    be sown in situ.
               HA
                          14-21
                                              65-70
                                                     Well drained
                                                                                    No. 13. (Soak for 12 hours).
Simmondsia
               HHT
                                                                      JC
                                                                             See
                          10-21
                                              70
                                                     Peatv
                                                                      S
Sinningia
               GP
                                   L
                          30-180
                                              50
                                                     Well drained
                                                                      1/8
                                                                             See No. 6.
Sisyrnchium
               ΗP
Skimmia
               HSh
                          30-180
                                   т.
                                              50-60
                                                     Acid Peat
                                                                      S
                                                                             Soak overnight then No. 14. (Pre-chill for 4 weeks).
Smilacena
               ΗP
                          30-180
                                   L
                                              60-65
                                                     Peaty
                                                                      JC
                                                                             See No. 14. (Pre-chill for 3 weeks).
                          15-40
                                                     Peaty
Smithiantha
               GP
                                              75-77
                                                                             Very small seeds
                          15-21
Solanum
                                              70-80 Well drained
                                                                             The plants should be placed outdoors through the summer for pollination.
                          30-180
                                                                             See No. 14. (Pre-chill for 4 weeks).
Soldanella
               ΗP
                                                     Well drained
Solidago
               ΗP
                          14-42
                                              50
                                                     Well drained
                                                                      JC
                          10-21
                                                     Well drained
Sophora
               ΗТ
                                              70-85
                                                                      JC
                                                                             Chip and soak seeds. See Nos. 12 and 13.
Sorbus
               ΗТ
                          120-180 L
                                              65-70
                                                     Well drained
                                                                      S
                                                                                              14. (Pre-chill for 4 months).
                          30-90
                                              50-55
                                                     Well drained
                                                                      1/16"
Sparaxis
               HBb
Sparmannia
               GSh
                          21-30
                                              65-75
                                                     Peaty
                                                                      JC
Spartium
               HSh
                          7-30
                                              70
                                                     Well drained
                                                                      JC
                                                                             CHip and soak. See Nos. 12 and 13.
                          12-30
Specularia
               HA
                                                     Well drained
                                                                      1/16"
                                                                             Sow outdoors and thin out.
                                                                             See No. 14. (Pre-chill for 3 weeks).
Spigelia
               H/HHF
                          30-60
                                              65-70 Well drained
                                                                      JC
Spiraea
               HSh
                          30-40
                                              55-65
                                                     Well drained
                                                                      JC.
                          15-30
                                              70
                                                     Well drained
                                                                      .TC
Stachys
               HР
                                   Τ.
                                                                             Reduce soil temperature at night. Grow on the dry side.
Stapelia
               GP
                          7-30
                                   T.
                                          Χ
                                              65-70 Peaty
                                                                      S
                                                                             Use 1/2 peat 1/2 sand.
                          30-90
                                                     Well drained
Stenocarpus
               ннт
                                          X
                                              65-75
                                                                      .TC
Stephanotis
               GP
                          15-90
                                              75-80
                                                     Peaty
                                                                      1/16"
                                                                             Keep the compost slightly moist.
Stereospermum
               GSh
                          30-180
                                              65-75 Well drained
                                                                      JC
                                              55-60
Stocks
               HHA
                          10-14
                                   T.
                                                     Well drained
                                                                      S
                                                                             Sow in situ..
                          25-30
                                                                      1/16"
Stokesia
               ΗP
                                              70
                                                     Peatv
Strelitzia
               GP
                          30-180
                                              70-75
                                                     Sand
                                                                      S
                                                                             See No. 1. Soak for up to 3 days changing the water daily.
                          15-30
                                                                      S
                                                                             Very small seeds. See No. 5.
               GP
                                              55-65
                                                     Peatv
Streptocarpus
                                              55-65
                                                     Well drained
Streptosolon
               HHSh
                          14-21
                                                     Well drained
                                                                      1/16"
                                                                             Sow outdoors and thin out to 6".
Stylomecon
               ΗА
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Styrax	HSh	30-90		X		Well drained	JC	
Succisa Sutherlandia	HP H/HHSh	10-21 21-30		Χ	65-70 60-65	Well drained Well drained	JC 1/16"	See No. 13. (Soak for 3 hours).
Sweet Pea	на	10-20	D		55-65	Peaty	Y4,	Flie or soak seeds. See Nos. 12 and 13. Grow cool.
Symphyandra	HP	21-30	L		60-65	Well drained	JC	Title of Sour Seeds. See Nos. 12 and 15. Glow Cool.
Syringa	HSh	14-60	L		70	Peaty	s	See No. 14. (Pre-chill for 3 weeks).
OJIIII94	11011	11 00	_		, 0	reacy		See No. 11. (22e Shift 202 Sheens).
Tacca	GP	30-270		Х	80-85	Peati	1/8"	Soak for 72 hours. See No: 13.
Tacitus	ННР	30-90	L	Х	50-60	Well drained	S	
Tamarix	@Sh	30-50	L		65-70	Peaty	S	See No. 5.
Taxodium	HT	14-60	L		70	Peaty	S	See No. 14. (Pre-chill for 30 days).
Taxus	HT	365+	L	Х	70	Peaty	JC	See No. 15. (3 months at 70'F, 3 months chill, 3 months at 70'9.
Tecophilaea	HBb	30-365		Х	50-55	Peaty	1/16"	Keep compost slightly moist.
Tellima	HP	30-90		Х	55-60	Well drained	S	See No. 6.
Tephrosia	HP	21-42			65-70	Well drained	JC	Chip and soak. See Nos. 12 and 13.
Tetranema	GP	14-30			65-75	Peaty	JC	
Teucrium	HP	25-30			70	Well drained	S	
Thalictrum	HP	15-21		Х	50-60	Well drained	1/8"	
Thermopsis	HP	15-30			70	Well drained	1/16"	File or soak the seeds. See Nos. 12 and 13.
Thuja	HSh	14-60	L	Х	55	Peaty	S	See No. 14. (Pre-chill for 4 weeks).
Thunbergia	нна	14-21		Х	70-75	Peaty	JC	Keep the compost slightly moist.
Thymus	HP	15-30	L		55	Peaty	S	See No. 5.
Tiarelia	HP	14-90		Χ	50	Well drained	S	See No. 6.
Tibouchina	GSh	30-90	L	Χ	60-70	Peaty	S	See No. 5.
Tigridia	H/HHBb	30-90			55-60	Well drained	1/16"	
Tillandsia	GP	30-90	L	Χ	60-70	Peaty	S	See No. 5.
Tithonia	нна	5-14	L	Χ	70-	Well drained	S	
Torenia	GA	15-30	L		70-75	eaty	S	See No. 5.
Townsendia	HP	30-90		Χ	60	Well drained	1/16"	See No. 6.
Trachelium	ННР	15-21	L		55-60	Well drained	S	
Trachycarpus	HT	40-90	L	Χ	55-65	Peaty	S	See No. 14. (Pre-chill for 4 weeks).
Trachymene	ННА	15-30	D		70	Well drained	1/16"	Trasplant carefully.
Tradescantia	HP	30-40			70	Peaty	JC	Reduce soil temperature at night.
Tree Fems	HHP	30-120	L	Χ	65-70		S	See No. 4.
Trichosanthes	ННА	14-30			65-75	-	1"	Sow singly in 2' pots.
Tricyrtis	HP	30-90		X		Well drained	1/8"	Keep compost slighty moist.
Trillium	HP	545+		Х		Well drained	S	See No. 15. Requires two periods of at least 3 months in the frig.
Tripteris	HA	5-14				Well drained	1/8"	Can be sown in situ.
Trollius	HP	30-365		X	50	Well drained	S	See No. 14. (Pre-chill for 2 weeks).
Trop. Speciosu		360-720 10-15		Х		Well drained	JC 1/4"	Can be sown in situ
Tropaeolum Tsuga	HA HT	7-60	L	Х	55-65 60	Peaty	1/4" S	Can be sown in situ See No. 14. (Pre-chill for 3 months).
Tulipa	нт НВb	60-90	ш	X	50	Well drained	1/8"	See No. 6.
Tunica	нво НР	14-60		Х	50	Well drained	1/1 ,	See No. 6
Tweedia	GP	30-90		Х	75	Well drained	JC	See No. 0
Ulex	HSh	14-21			65-75	Well drained	JC	See No. 13.
Urospermum	НР/НВ	16-30	L		60-65	Well drained	JC	
Ursinia	нна	14-30			55-60	Well drained	JC	
Uvularia	HP	30-180		Х	55-60	Peaty	JC	
Vaccinium	HSh	365+	L	Х	65-75	Acid Peat	S	See No. 16.
Vallota	HHBB	30-60			65-70	Peaty	1/16"	
Veltheimia	ННВВ	30-90		Χ	55-65	Peaty	1/16"	Keep compost slightly moist
Venidium	нна	6-14			60-65		1/8"	
Veratrum	HP	90-365		Χ		Well drained	<"	See No. 6 and No. 16.
Verbascum	HB. HP	14-30			55-60	Well drained	1/16"	Can be grown in situ

Verbascum HB, HP 14-30 55-60 Well drained 1/16" Can be grown in situ

Verbena	нна, нр	14-90	D	Χ	65	Well drained	1/16"	Bonariensis & Venosa. See No. 14. (Pre-chill for 2 weeks).
Verbesina	ННА	14-30			60-65	Well drained	1/8"	
Veronica	HP	15-30	L		70	Peaty	JC	Reduce soil temperature at night.
Veronicastrum	HP	21-40	L		55-60	Well drained	JC	
Viburhum	HSh	240-540	L	Χ	70	Well drained	JC	See No. 15. (3 mortths 70F, 3 months chill, 3 months 70F).
Vicia	HP	21-40			65-70	Well drained	JC	
Vinca	GA	15-30	D	Χ	70-75	Peaty	1/16"	
Viola	HP	14-21	D	Χ	65-75	Well drained	1/16"	See No. 14. (Pre-chill for 2 weeks).
Viscaria	HA	10-21			60-65	Well drained	JC	
Vriesia	GP	7-90	L	Χ	60.7	Peaty	S	See No. 5.
Wahlenbergia	нна	14-28	L		60-70	Well drained	S	
Wallflower	НВ	10-14			-70	Well drained	1/4"	Sow in reserve bed, prick out 6' apart, plant out in October.
Waterlily	GP	14-30						File seed and submerge in water at 75-85'F, change water twice daily.
Watsonia	HBb	30-180		Χ	55-65	Well drained	1/8"	Keep the compost slimy moist.
Wistaria	HSh	30-60			55-65	Well drained	1/8"	Chip and soak in hand hot water. See Nos. 12 and 13.
Xeranthemum	HA	10-15			70	Well drained	JC	Transplant carefully.
Xeraphyllum	HP	30-60		Χ	55-60	Peaty	JC	
Yucca	HA	30-365		Χ	65-75	Well drained	JC	Filamentosa germinates at 55'F.
Zantedeschia	ННР	30-90	L	Χ	70-80	Peaty	S	See No. 13. Keep compost quite moist.
Zauschneria	H/HHP	30-60	L		60-65	Well drained	JC	
Zea	нна	5-14			70	Peaty	1/4"	Sow seeds individually in peat pots.
Zelkova	HT	14-60	L	Χ	50-70	Peaty	S	See No. 5 or No. 14. (Pre-chill for 2 weeks).
Zinnia	нна	10-24			75-80	Peaty	1/16"	Sow seeds individually in peat pots.

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