

Sedum Society Newsletter Index

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Abbreviations

cf. - *confer* (compare with ...)
f. or fma or fa - form/ *forma*
sect. - section/*sectio*
sp. - species
sp. aff. - species with affinity to ..., or close to ...
spp or subsp. - subspecies
syn. - synonym
var. – variety

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A. brevifolia **98**: 75
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Adenium

A. socotranum
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- A. canariense* var. *subplanum* **125**: 56 (incorrectly indicated as *A. subplanum*), 61;
 Illustration **98**: 76 (Fig 8), **125**: 58 (Fig 12)
- A. canariense* ssp. *virgineum* **151**: 88
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- A. castello-paivae* **125**: 55
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- A. castello-paivae* x *A. lindleyi* var. *viscatum*
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- A. davidbramwellii*
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- A. decorum* **125**: 61
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- A. glandulosum* **145**: 37
- A. glutinosum* **145**: 37, 38
- A. haworthii*
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- A. haworthii* 'Dream Color') **135**: 127-128
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- A. 'Ice Warrior'*
- A. korneliuslemsii*
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- A. lancerottense* **102**: 98, **109**: 57-60
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- A. laxum* **78**: 88-90
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- A. leucoblepharum* (or *A. stuessyi*)
 Illustration **135**: 122 (Fig 21)
- A. lindleyi* var. *viscatum* **125**: 56-58, **125**: 61
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- A. nobile* **81**: 68, **141**: 47
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 Illustration (habitat) **81**: 69 (Fig 11), **141**: 47 (Fig 41 map)
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- A. percarneum* **151**: 88
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- A. 'Phoenix Flame'* **153**: 73 (Fig 24)
- A. sedifolium* **78**: 84-86, **141**: 47,
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- A. simsii* **147**: 97, **150**: 60, **151**: 88
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- A. smithii* **150**: 59
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- A. spathulatum* **138**: 58-62, **150**: 59, **151**: 88
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Clementsia

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Illustration **123**: 5 (Figs 1 & 2), **123**: 7 (Fig 5)
Illustration (cultivation) **123**: 6 (Fig 3), **123**: 8 (Fig 7)
Illustration (habitat) **123**: 6 (Fig 4), **123**: 8 (Fig 8)
Illustration (inflorescence) **123**: 7 (Fig 6)
- C. grisea*
Illustration **120**: 33 (Fig 13)
- C. helmsii* **77**: 55, **80**: 46, **80**: 49
Illustration **80**: 49 (Fig 16), **153**: 55 (Fig a)
- C. hemisphaerica*
Illustration **150**: 53 (Fig 3)
- C. lactea*
Illustration **150**: 54 (Fig 4)
- C. lanceolata* **94**: 83, **99**: 5
Illustration **99**: 6 (Fig 3)
- C. mesembryanthemopsis* **124**: 40
Illustration **124**: 40 (Fig 23)
- C. multicava* **153**: 78-79
Illustration **153**: 79 (Figs 29 & 30)
- C. muscosa* (syn. *Crassula lycopodioides*) **73**: 57, **80**: 47, **80**: 49-50, **107**: 7, **120**: 29-31
Illustration **80**: 50 (Fig 17), **107**: 7 (Fig 4), **107**: 8 (Fig 5)
Illustration (variation) **120**: 32 (Figs 10 & 11)
- C. nudicaulis* **107**: 3, **108**: 27, **120**: 31
Illustration **107**: 8 (Fig 6)
- C. ovata* **134**: 83,
Illustration **150**: 54 (Fig 5)
- C. ovata* 'Gollum'
Illustration **117**: 76 (Fig 21)
- C. ovata* 'Hobbit' (syn. *C. ovata* 'Montrosa') **106**: 82, **132**: 30,
Illustration **132** (front cover)
- C. ovata* 'Montrosa' (see *C. ovata* 'Hobbit')
- C. pellucida* ssp. *marginalis* 'Little Missy'
Illustration **137**: 51 (Fig 28)
- C. peploides*
Description **107**: 14-15
Illustration (Habitat) **107**: 14 (Fig 16)
Illustration (Inflorescence) **107**: 15 (Fig 17)
- C. perfoliata* **106**: 83
- C. pubescens*
Illustration **75**: 20 (Figs 23 & 24)
- C. pubescens* subsp. *radicans* **104**: 36-37
Illustration **104**: 36 (Figs 6 & 7), **104**: 37 (Figs 8 & 9)
- C. radicans* 'Tresco Seaspray' **135**: 129-130
Illustration **135**: 130 (Fig 27)
- C. rupestris*
Illustration **110**: 86 (Fig 2)
- C. sarcocaulis* **151**: 84-85
Illustration **151**: 84 & 85 (Figs 1, 2 & 3)

- C. saxifraga* **120**: 34-35
 Illustration (habitat) **120**: 34 (Fig 14)
 Illustration (inflorescence) **120**: 35 (Fig 15)
 Illustration (leaves) **120**: 35 (Fig 16)
- C. sericea* var. *sericea* **107**: 7, **120**: 31,
 Illustration **107**: 9 (Fig 7), **120**: 31 (Fig 8)
- C. sericea* var. *velutina*
 Illustration **115**: 29 (Fig 40)
- C. schimperi* (syn. *Crassula lanceolata*)
- C. streyi* **153**: 77-79, **155**: 122
 Illustration **153**: 77 (Fig 27), 78 (Fig 28), **155**: 122 (Fig 16)
- C. strigosa* **100**: 54
- C. subacaulis* var. *erosula* **108**: 27
- C. subaphylla* **120**: 29-31
- C. susannae* **124**: 41-42
 Illustration **124**: 42 (Fig 25)
- C. swaziensis* **155**: 126-127
 Illustration **155**: 126 (Fig 21,) 127 (Figs 22 & 23)
- C. thunbergiana* **80**: 47
- C. tillaea* (see *Tillaea mucosa*) **80**: 44-45, **80**: 46-54, **80**: 51-52, **115**: 6, **118**: 107, **119**: 11, **147**: 98
 Illustration **80**: 45 (Fig 15), **80**: 51 (Fig 18), **80**: 52 (Fig 20), **115**: 6 (Fig 7), **118**: 88 (Figs 4 & 5)
- C. tomentosa* **120**: 30
- C. vaillantii* **80**: 46, **80**: 52-54
 Illustration **80**: 53 (Fig 21)

Cremnophila

150: 64

- C. linguifolia* **56**: 38, **87**: 4, **143**: 89, **150**: 64
 Illustration (inflorescence) **118**: 95 (Fig 12), **150**: 64 (Fig 25)
 Illustration (rosette) **118**: 95 (Fig 13)
- C. nutans* **56**: 38, **78**: 95-96, **143**: 89, **150**: 64
 Hybrids in cultivation **56**: 38
- C. nutans* x *S. dendroideum* **79**: 10-11
 Illustration **79**: 10 (Fig 9)
- C. tetzmitlia* (see *C. nutans*) **143**: 89
- C. tlahuicana* (see *C. linguifolia*) **118**: 94-95, **143**: 89

Cumulopuntia

- C. boliviana* **73**: 57

Dendrosicyos

D. socotrana **99**: 4

Diamorpha

150: 64

Illustration **150**: 64 (Fig 26)

Dracaena

D. cinnabari **99**: 4

Dudleya

150: 66

Illustration **150**: 64 (Fig 27) flowers

D. agouensis **95**: 9-10

Illustration **95**: 10 (Figs 3 & 4), **95**: 16 (Fig 12)

D. anthonyi **100**: 44, **134**: 83, **155**: 120 (ssp. *rosa*)

D. blochmaniae **95**: 2, **95**: 13-14

Illustration **95**: cover, **95**: 14 (Fig 10)

D. blochmaniae subsp. *brevifolia* **95**: 14-5

D. brittonii **72**: 46, **95**: 9, **100**: 44

D. caespitosa **95**: 9

D. candida **100**: 43

D. cymosa **100**: 45

D. cymosa subsp. *agouensis* **95**: 9, **95**: 15

D. cymosa subsp. *crebrifolia* **95**: 15

Illustration **95**: 16 (Fig 14)

D. cymosa subsp. *ovatifolia* **95**: 9-13, **95**: 15

D. cymosa subsp. *pumila* **95**: 15, **100**: 44-48

Illustration **95**: 16 (Fig 15), **100**: 44 (Fig 4), **100**: 46 (Figs 7 & 9), **100**: 47 (Figs 11a & b), **100**: 48 (Figs 12 & 13)

D. densiflora **95**: 16

Illustration **95**: 17 (Fig 16)

D. farinosa **95**: 12, **151**: 99-101

Illustration **151**: 99 (Figs 29 – 32), **100** (Figs 33 – 35), **101** (Fig 36)

D. lanceolata **95**: 9-12, **95**: 15, **100**: 44-48

Illustration **95**: 10 (Figs 3 & 4), **95**: 12 (Fig 7), **100**: 44 (Fig 4), **100**: 45 (Figs 5a, 5b, 6a & 6b), **100**: 46 (Fig 8)

D. nesiotica

Illustration **77**: cover

D. pachyphytum **95**: 4, **95**: 9, **95**: 18-21

Illustration **95**: 19 (Fig 19), **95**: 20 (Figs 20a & b), **95**: 22 (Fig 22)

D. pulverulenta **95**: 9-12, **95**: 15, **100**: 44-45

D. saxosa subsp. *collomia* **124**: 29-31

- Illustration **95**: 11 (Fig 6), **95**: 12 (Fig 7), **95**: 15 (Fig 11), **100**: 45 (Figs 6a & b), **124**: 29 (Fig 9), **124**: 31 (Fig 12)
 Illustration (distribution) **124**: 30 (Fig 10), **124**: 31 (Fig 11)
D. subgenus Hasseanthus **95**: 13
 Illustration **95**: 13 (Fig 9)
D. verityi **95**: 13, **95**: 15
 Illustration **95**: 16 (Fig 13)
D. virens subsp. *insularis* **95**: 17
 Illustration **95**: 17 (Fig 17)

Echeveria

- 150**: 66
E. 'Acaulis' **89**: 58
E. agavoides **121**: 64-65
 Illustration **121**: 65 (Fig 9)
E. amoena **89**: 58-59
E. amphoralis **150**: 71-74
E. andicola **143**: 94
E. 'Anit'
 Description **92**: 28-29
 Illustration **92**: 28 (Figs 6 & 7)
E. 'Bombycina' **89**: 58
E. ccallu see *Sedum ccallu*
E. caerulescens
 Illustration **89**: 60 (Fig 7)
E. 'Corymbosa' **89**: 60
E. crenulata
 Description **102**: 86-87
E. 'Crinita' **89**: 58
E. diffractens **132**: 45-47
E. 'Doris Taylor' **89**: 58
E. elegans
 Illustration **154**: (Fig 8)
E. F.O 36
 Description **71**: 16-17
 Illustration **71**: 17 (Fig 11)
E. 'Fallax' **89**: 59
 Illustration **89**: 59 (Fig 6)
E. 'Flibbertigibbet' **132**: 45-49
 Illustration **132**: 46-49 (Figs 23-28)
E. fulgens **102**: 87
E. glauca (see *E. secunda*)
E. 'Haageana' **89**: 60
 Illustration **89**: 60 (Fig 8)
E. 'Imbricata'
 Illustration **146**: 74
E. 'Indecorata' **89**: 59
E. 'John Knox' **137**: 39-41

Illustration **137**: 39 (Figs 12 & 13), 40 (Figs 14-16), 41 (Fig 17)
E. kimnachii **143**: 89-90
E. 'Lanceolata' **89**: 59
E. linguifolia (see *Cremnophila linguifolia*)
E. macdougallii **131**: 4, 5 (Illustration Figs 2 & 3)
E. meyranaiana **143**: 90-91
E. multicaulis **132**: 45-47
E. peruviana **119**: 9, **143**: 94
 Illustration **119**: 8 (Fig 5)
E. 'Pseudo-agavoides' **89**: 60
E. 'Pseudolancifolia' **89**: 59
E. 'Pulv-Oliver' **104**: 45
 Illustration **104**: 45 (Fig 20)
E. pulvinata **89**: 58
E. purpusorum **89**: 58
 Illustration **119**: 7 (Fig 4)
E. rosea **83**: 9
E. secunda **117**: 58
 Illustration **116**: 51 (Fig 29), **117**: 58 (Fig 8)
E. 'Set-Oliver' **92**: 29
 119: 5
 Illustration (postage stamp) **119**: 5 (Figs 1 & 2)
E. setosa **89**: 58
E. 'Silvergreen' **89**: 58
E. skinneri **150**: 71-74
E. strictiflora **93**: 60
 Illustration **93**: 59 (Fig 10), **93**: 60 (Figs 11)
E. subalpina **143**: 90-91
E. tamaulipana **143**: 91
E. tolimanensis **126**: 94
 Illustration **103**: 24 (Fig 29), **126**: 94 (Fig 13)
E. walpoleana **143**: 91

Echinocereus

E. maritimus **95**: 19-21
 Illustration **95**: 20 (Fig 20a & b), **95**: 21 (Fig 21)
E. reichenbachii **106**: 85-92
 Illustration **106**: 88 (Figs 5 & 6)
E. reichenbachii subsp. *baileyi* **106**: 85

Echinopsis

E. maximiliana **73**: 57

Euphorbia

E. balsamifera **109**: 57-58

E. chaparis ssp *wulfenii* - correct name *E. characias* ssp. *wulfenii*: **52**: 38

E. dendroides **73**: 56

Gormaniana

150: 66

Illustration **150**: 66 (Fig 29)

Graptopetalum

G. amethystinum (as parent of x*Graptosedum* 'Blue Giant') **90**: 95, **148**: 22

x *Sedum burrito* **24**: 5

x *Sedum morganianum* **24**: 5

G. filiferum **123**: 22, **144**: 9

Illustration **123**: 22 (Figs 3 & 4 (should read 27 & 28)), **144**: 10 (Fig 7)

G. goldii (see *Sedum allantoides* 'Goldii' and *Sedum* 'Goldii')

G. 'Heaven' **60**: 32-33, **123**: 22

Illustration **60**: 97, **123**: 23 (Figs 6 & 7 (should read 30 & 31))

Illustration (inflorescence) **123**: 22 (Fig 5 (should read 29))

G. luteum is a x*Graptosedum* **143**: 89

G. macedougallii **131**: 5 (illustration Figs 4 & 5)

G. occidentale **143**: 89-90

G. pachyphyllum **57**: 78-80, **58**: 92

Illustration **57**: 77, **58**: 86

G. paraguayense **32**: 21, **34**: 12-13, **38**: 11, **40**: 17, **78**: 95, **144**: 2-3, **152**: 13

Illustration **85**: cover, **144**: cover, 2 (Fig a), **154**: cover

G. 'Purple Haze' **127**: 2

Illustration **127**: cover

G. rusbyi **123**: 22

Illustration **123**: 21 (Fig 1 (should read 25))

G. saxifragoides **123**: 22

Illustration **123**: 22 (Fig 2 (should read 26))

Hasseanthus

150: 67

Illustration **150**: 66 (Fig 30)

Honckenya

H. peploides **132**: 30 (with illustration)

Hylotelephium

H. 'Abbeydore' **98**: 90, **153**: 66 (Fig 14), 70

H. 'Abendrot' see *H. spectabile* 'Abendrot'

H. 'African Pearl' **98**: 90

H. 'African Sunset' see *H. telephium* 'African Sunset'

H. 'Album' **98**: 88

H. anacampseros (see *Sedum anacampseros*) **42**: 53-54, **42**: 71, **47**: 15, **57**: 58, **58**: 100, **59**: 15-22, **86**: 76-77, **120**: 48-50

Illustration **120**: 46 (Fig 28), **120**: 48 (Fig 30)

Illustration (flowering period) **82**: 86 (Fig 4), **86**: cover

H. angustum

Illustration **137**: 33 (Fig 3)

H. 'Atropurpureum' (see *H. telephium* subsp. *maximum* 'Atropurpureum')

H. 'Aquarell' **98**: 90

H. 'Arthur Branch' (see *Sedum telephium* 'Arthur Branch') **48**: 36, **98**: 90

H. 'Autumn Charm' **98**: 90, **153**: 70

Illustration **116**: 55 (Fig 37)

H. 'Autumn Delight' **98**: 90

Illustration **116**: 55 (Fig 38)

H. 'Autumn Fire' **98**: 90

H. 'Autumn Joy' (see *Hylotelephium telephium* 'Autumn Joy') **45**: 57, **46**: 90, **48**: 36, **98**: 90

Cultivation **17**: 21

H. 'Beka' (see *Hylotelephium* 'Autumn Delight')

H. 'Belle de Jour' **98**: 90

H. 'Bengt Fagerström' **98**: 90

H. 'Bertram Anderson' **45**: 57, **45**: 66, **98**: 90, **153**: 70

Illustration **45**: 66

H. 'Beth's Special' (see *Hylotelephium telephium* subsp. *ruprechtii* 'Beth's Special')

H. 'Black Emperor' **98**: 88

H. 'Black Jack' **98**: 90

H. 'Blade Runner' **153**: 70

H. 'Blue Elf' **124**: 32-34

Illustration **124**: cover, 33 (Figs 13-16), 34 (Figs 17 & 18)

H. boehmeri (see *Orostachys boehmeri*) **123**: 18-19

H. 'Bon Bon' (see *Hylotelephium telephium* 'Bon Bon')

H. borderi (see *Hylotelephium telephium fabaria*)

H. 'Brilliant' (see *Hylotelephium spectabile* 'Brilliant')

H. 'Bronco' (see *Hylotelephium telephium* subsp. *maximum* 'Bronco')

H. 'Carl' **45**: 57, **45**: 59, **45**: 66, **48**: 38, **98**: 90, **153**: 70

Illustration **45**: 66, **153**: 66 (Fig 15)

H. 'Carmen' (see *Hylotelephium spectabile* 'Carmen')

H. caucasicum (see *Sedum caucasicum*) **92**: 42-43

Illustration (inflorescence) **92**: 43 (Fig 24)

Illustration (in situ) **92**: 43 (Fig 25)

- H. cauticola* (see *Sedum cauticola*), **131**: 20
 Illustration (flowering period) **82**: 86 (Fig 4)
- H. cauticola* 'Coca Cola' **98**: 88, **153**: 70
- H. cauticola* 'Lidakense' **153**: 70
- H.* 'Cherry Tart' **153**: 70
- H.* 'Cherry Truffle' **153**: 70
- H.* 'Chocolate' **98**: 90
- H.* 'Chocolate Cherry' **153**: 70
- H. chongsunense* **123**: 18-19
- H.* 'Citrus Twist' **98**: 88, **98**: 90
- H.* 'Class Act' **98**: 90, **153**: 70
- H.* 'Coca Cola' (see *Hylotelephium cauticola* 'Coca Cola')
- H.* 'Crazy Ruffles' **98**: 90
- H.* 'Dark Jack' (see *Hylotelephium* 'Black Jack')
- H.* 'Dark Magic' **153**: 70
- H.* 'Dazzleberry' **153**: 70
 Illustration **111**: 15 (Fig 18)
- H.* 'Desert Black' **153**: 70
- H.* 'Diamond Edge' **98**: 90
- H.* 'Drachenblut' (see *Hylotelephium* 'Karfunkelstein')
- H.* 'Dream Dazzler' **153**: 70
- H.* 'Dudley Field' **98**: 90
 Illustration **45**: 66
- H.* 'El Cid' **98**: 90
- H.* 'Elsie's Gold' **98**: 90
- H. erythrostictum* (see *Sedum erythrosticum*) **46**: 91, **82**: 98
 Illustration **117**: 66 (Fig 10), **141**: 33 (Fig 9),
- H. erythrostictum* 'Frosty Morn' (see *Sedum* 'Frosty Morn') **43**: 3, **98**: 88, **153**: 70
- H. erythrostictum* var. *mediovarigatum* **98**: 88
- H.* 'Escapade' **98**: 90
- H. ettyuense* (see *Hylotelephium sieboldii* var. *ettyuense* and *Sedum kagamontanum*)
- H. ewersii* (see *Sedum ewersii*) **42**: 56, **42**: 59, **46**: 97, **47**: 16-17, **85**: 52, **92**: 34, **118**: 85, **136**: 3, **139**: 87, 88, **142**: 58,
 Illustration (flowering period) **82**: 86 (Fig 4)
 Illustration **82**: 90 (Fig 6), **92**: 34 (Fig 13), **113**: Cover, **139**: 88 (Figs 14&15), **144**: 14 (Fig 10)
- H. ewersii cyclophyllum* **47**: 16
 Illustration (flowering period) **82**: 86 (Fig 4)
- H. ewersii homophyllum* (see *Sedum ewersii* var. *homophyllum*) **47**: 16-18, **81**: 67,
 Illustration **47**: 2, **47**: 19, **82**: 86 (Fig 4)
- H. ewersii* 'Nana' **98**: 89
- H. ewersii* 'Rosenteppich' **98**: 89, **153**: 70
- H.* 'Fiesta' (see *Hylotelephium telephium* subsp. *ruprechtii* 'Fiesta')
- H.* 'Firecracker'
 Illustration **111**: 16 (Fig 19)
- H.* 'Frosted Fire' **153**: 70
- H.* 'Frosty Morn' (see *Hylotelephium erythrostictum* 'Frosty Morn')
- H.* 'Garnet Brocade' **98**: 90
- H.* 'Golden Morn' (see *Hylotelephium erythrostictum mediovarigatum*)
- H.* 'Gooseberry Fool' (see *Hylotelephium telephium* subsp. *maximum* 'Gooseberry Fool')

H. 'Green Expectations' (see *Hylotelephium telephium* subsp. *maximum* 'Green Expectations')
H. 'Green Ice' (see *Hylotelephium spectabile* 'Green Ice')
H. 'Hab Grey' (see *Hylotelephium telephium* subsp. *ruprechtii* 'Hab Grey')
H. 'Herbstfreude' (see *Hylotelephium* 'Autumn Joy') **113**: 60-62, **153**: 70
 Illustration **110**: 97 (Fig 15), **113**: 60 (Fig 1)
H. 'Hidakense' (see *Hylotelephium* 'Ruby Glow' and *Sedum hidakense*)
H. 'Hot Stuff' **98**: 88
H. 'Humile' (see *Hylotelephium spectabile* 'Humile')
H. iwarenge **123**: 18-19
H. 'Iceberg' see *Hylotelephium spectabile* 'Iceberg')
H. 'Indian Chief' (see *Hylotelephium*. 'Herbstfreude' and *Sedum telephium* 'Indian Chief')
H. 'Jamin' **98**: 90
H. 'Janet Poor' **98**: 88, **136**: 11
H. 'Jaws' **98**: 90
H. 'Jennifer' (see *Hylotelephium telephium* 'Jennifer')
H. 'Jose Aubergine' (see *Hylotelephium telephium* 'Jose Aubergine')
H. 'Joyce Henderson' **98**: 90, **153**: 70
H. julianum **44**: 41
H. 'Karma' **98**: 91
H. 'Karfunkelstein' (see *Hylotelephium telephium* 'Karfunkelstein')
H. 'Kurt Weckstrom' **82**: 83, **98**: 91, **113**: 60-62, **136**: 11
 Illustration (flowering period) **82**: 86 (Fig 4), **113**: 61 (Figs 2-4), **136**: 8 (Fig 6)
H. 'Ladislav Hlavaty' **45**: 58, **45**: 66, **50**: 86, **98**: 91, **136**: 11
 Illustration **45**: 66, **136**: 8 (Fig 7)
H. 'Lajos' **98**: 91, **153**: 70
H. 'Leonore Zuutz' **98**: 89
 Illustration **153**: 69 (Fig 22)
H. 'Lime Twister' **153**: 70
H. 'Lime Zinger' **153**: 70
 Illustration **111**: 16 (Fig 20), **153**: (Fig 16)
H. 'Linda et Rodney' (see *Hylotelephium. telephium* 'Linda et Rodney')
H. 'Lisa' (see *Hylotelephium spectabile* 'Lisa')
H. 'Lynda Windsor' (see *Hylotelephium telephium* 'Lynda Windsor')
H. 'Maestro' **98**: 91
H. malocophyllum **123**: 18-19
H. malocophyllum f. *roseum* **123**: 18-19
H. malocophyllum subsp. *lioutchenngoi* **123**: 18-19
H. malocophyllum var. *aggregatum* **123**: 18-19
H. 'Marchants Best Red' **153**: 70
H. 'Matrona' **45**: 58, **45**: 65, **48**: 36, **98**: 91, **153**: 70 & 'Matrona' dark form,
 Illustration **45**: 66
H. maximowiczii **124**: 27
H. maximum **44**: 40, **48**: 33, **50**: 95, **87**: 21, **132**: 41, **144**: 21, 23, 146: 60
 Illustration **144**: 23 (Fig 18)
H. 'Mediovarigatum' (see *Hylotelephium erythrostictum* var. *mediovarigatum*)
H. 'Meteor' (see *Hylotelephium spectabile* 'Meteor')
H. 'Mini Joy' **98**: 91
H. 'Mohrchen' **98**: 91
H. 'Mr Goodbud' **98**: 91, **153**: 70
 Illustration **153**: 68 (Fig 18)

H. 'Munstead Dark Red' (see *Hylotelephium* 'Munstead Red')
H. 'Munstead Purple' (see *Hylotelephium* 'Munstead Red')
H. 'Munstead Red' (see *Hylotelephium telephium* subsp. *telephium* 'Munstead Red'), **153**: 70
H. 'Nana' (see *Hylotelephium ewersii* 'Nana')
H. 'Neon' (see *Hylotelephium spectabile* 'Neon')
H. 'Nordlicht' (see *Hylotelephium spectabile* 'Nordlicht')
H. ohbae **123**: 18-19
H. orbiculatum **81**: 67
 Illustration **146**: 75
H. 'Oriental Dancer' **153**: 70'
H. paradoxum **123**: 20
H. 'Pearly Pink' **45**: 58
H. 'Picolette' **98**: 91, **153**: 70
H. 'Pillow Talk'
 Illustration **118**: 87 (Fig 3)
H. 'Pink Chablis' (see *Hylotelephium spectabile* 'Pink Chablis')
H. 'Pink Fairy' (see *Hylotelephium spectabile* 'Pink Fairy')
H. 'Pinky' **153**: 70
H. 'Plum Dazzled' **153**: 70, 71
H. populifolium (see *Sedum populifolium*) **82**: 83, **85**: 52, **87**: 22
 Illustration (flowering period) **82**: 86 (Fig 4)
H. populifolium 'Janet Poor' see *H.* 'Janet Poor'
H. populifolium 'Vaclav Plestil's Red'
 Description **57**: 76-77
 Illustration (flowering period) **57**: 53, **57**: 80-81, **82**: 86 (Fig 4), **136**: 6 (Fig 5)
H. 'Postman's Pride' **98**: 91
H. 'Purple Emperor' (*Hylotelephium telephium* 'Purple Emperor'), **153**: 70
H. 'Purple Face' (*Hylotelephium spectabile* 'Pink Fairy')
H. 'Purple Moon' (*Hylotelephium telephium* 'Purple Moon')
H. purpureum (*H. telephium purpureum*) **126**: 89
H. 'Raspberry Red' **45**: 58, **153**: 70
H. 'Red Cauli' (*Hylotelephium telephium* 'Red Cauli')
H. 'Red Rum' (see *Hylotelephium telephium* 'Red Rum')
H. 'Ringmore Ruby' **98**: 91
H. 'Robstum' **98**: 91
H. 'Rose Carpet' (see *Hylotelephium ewersii* 'Rosenteppich')
H. 'Rosenteller' (see *Hylotelephium spectabile* 'Rosenteller')
H. 'Rosenteppich' (see *Hylotelephium ewersii* 'Rosenteppich')
H. 'Roseovariegatum' (see *Hylotelephium telephium* 'Roseovariegatum')
H. 'Rosey Glow' **98**: 91
H. 'Rubin' (see *Hylotelephium spectabile* 'Rubin')
H. 'Ruby Glow' **98**: 90, **98**: 91, **153**: 70
 Illustration **45**: 66
H. 'Samuel Oliphant' **98**: 91
H. 'Sandsturm' (see *Hylotelephium telephium* subsp. *ruprechtii* 'Sandsturm')
H. 'Savill Burgundy' (see *Hylotelephium telephium* subsp. *maximum* 'Savill Burgundy')
H. 'Septemberglut' (see *Hylotelephium spectabile* 'Septemberglut')
H. sieboldii (see *Sedum sieboldii*) **130**: 99-100
 History & Nomenclature **130**: 88-96, **130**: 96-98
 Illustration **49**: 62, **130**: 99 (Fig 12), **130**: 100 (Fig 13)

Illustration (Japanese publication) **130**: cover, **130**: 97 (Fig 10)
 Illustration (flowering period) **82**: 86 (Fig 4)
H. sieboldii 'Dragon' **130**: 95
H. sieboldii 'Foliis Medio-variegatis' **130**: 93
H. sieboldii Medio-variegatum (see *Hylotelephium sieboldii*)
 Illustration **130**: 92 (Fig 8)
H. sieboldii 'October Daphne' **130**: 95
H. sieboldii var. *chinense* **130**: 98
H. sieboldii var. *ettyuense* **72**: 36-37, **130**: 88-96, **130**: 98
 Illustration **81**: 68 (Fig 9)
H. sieboldii var. *sieboldii* **130**: 98H. 'Snowqueen' (see *Hylotelephium spectabile* 'Snowqueen')
H. spectabile (see *Sedum spectabile*) **41**: 28, **44**: 43, **45**: 66, **46**: 90, **46**: 91, **48**: 46, **53**: 43, **82**: 98, **89**: 71, **110**: 98, **152**: 13, **153**: 70
 Illustration **110**: 98 (Fig 16)
 Illustration (flowering period) **82**: 86 (Fig 4), **85**: 68 (Fig 12c)
H. spectabile 'Abendrot' **98**: 88
H. spectabile 'Brilliant' **45**: 57, **45**: 59, **45**: 66, **48**: 90, **98**: 88, **153**: 70
 Illustration **45**: 66
H. spectabile 'Carmen' **45**: 57, **46**: 90, **98**: 88
H. spectabile 'Crystal Pink' **116**: 51, **153**: 70
 Illustration **116**: 52 (Fig 30)
H. spectabile 'Green Ice' **98**: 88
H. spectabile 'Humile' **98**: 88
H. spectabile 'Iceberg' (see *Sedum spectabile* 'Iceberg') **98**: 88, **113**: 60-62, **153**: 70
 Illustration **113**: 60 (Fig 1), **113**: 62 (Fig 3), **143**: 84 (Fig 18)
H. spectabile 'Lisa' **98**: 89, **153**: 70
H. spectabile 'Meteor' **46**: 90, **98**: 89, **153**: 70
H. spectabile 'Neon' **98**: 89
H. spectabile 'Nordlicht' **98**: 89
H. spectabile 'Pink Chablis' **98**: 89
H. spectabile 'Pink Fairy' **98**: 89
H. spectabile 'Purple Face' **98**: 89
H. spectabile 'Rosenteller' **45**: 58-59, **98**: 89
H. spectabile 'Rubin' **98**: 89
H. spectabile 'Septemberglut' **48**: 36, **98**: 89, **98**: 91
H. spectabile 'Snowqueen' **98**: 89
H. spectabile 'Stardust' (see *Sedum spectabile* 'Stardust') **45**: 59, **48**: 36, **98**: 89
 Reverting **19**: 9
H. spectabile 'Steven Ward' **98**: 89
H. 'Spirit' **98**: 91
H. 'Stardust' (see *Hylotelephium spectabile* 'Stardust')
H. 'Stewed Mountain Rhubarb' **45**: 59, **98**: 91, **153**: 70
H. 'Steven Ward' see (*Hylotelephium spectabile* 'Steven Ward')
H. 'Strawberries & Cream' (see *Hylotelephium telephium* 'Strawberries & Cream')
H. 'Sunkissed' (see *Hylotelephium telephium* subsp. *maximum* 'Sunkissed')
H. 'Sunset Cloud' **45**: 59, **98**: 91
H. 'Superstar' **153**: 70
H. tatarinowii
 Illustration **155**: 113 (Fig 2)
H. tatarinowii 'Sunset Cloud' (see *Sedum tatarinowii* 'Sunset Cloud') **81**: 67, **89**: 71

H. tianschanicum **139**: 88
H. telephium (see *Sedum telephium*) **52**: 28-29, **72**: 29-30, **101**: 67, **112**: 32, **118**: 85, **120**: 39-42, **126**: 88-90, **132**: 43-44 (and grey ermine moth), **138**: 69-72, **147**: 78, **150**: 50, 54, 55, **153**: 70
 Illustration **118**: 34, **126**: 89 (Fig 8), **131**: cover, **132**: 42 (Figs 19-22), **138**: 68 (Fig 17), **146**: 65 (Fig 12), **147**: cover, **150**: 50 (Fig a), 55 (Fig 7), **153**: 65 (Fig 13a)
H. telephium 'African Sunset' **98**: 88
H. 'Black Beauty' **153**: 70
H. telephium 'Bon Bon' **98**: 88
H. telephium 'Carl'
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Drachenblut' **98**: 88
H. telephium fabaria (see *Sedum telephium* subsp. *fabaria* and *Sedum fabaria*) **44**: 40
H. telephium fabaria borderii (see *Sedum telephium* var. *borderii*) **44**: 40, **49**: 66, **153**: 70
 Illustration (flowering period) **82**: 86
H. telephium 'Gooseberry Fool'
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Herbstfreude' (see *Hylotelephium* 'Herbstfreude' and *Sedum telephium* 'Indian Chief') **153**: 71
 Illustration (flowering period) **82**: 86 (Fig 4)
H. 'Hester' **153**: 70
H. telephium 'Jennifer' **98**: 88, **153**: 70
H. telephium 'Jose Aubergine' **98**: 88, **153**: 70
H. telephium 'Karfunkelstein' **98**: 88, **98**: 90, **153**: 70
 Illustration **126**: 103
H. telephium 'Lynda Windsor' **98**: 88
H. telephium 'Matrona' **153**: 71
 Illustration (flowering period) **82**: 86 (Fig 4), **153**: 69 (Fig 20)
H. telephium 'Mohrchen' (see *Sedum* 'Mohrchen')
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Emperor' **45**: 59, **91**: 19, **93**: 63, **98**: 89
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Purple Moon' **98**: 89
H. telephium (*purpureum*) (see *H. purpureum*)
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Red Cauli' **98**: 89, **153**: 71
 Illustration **153**: 69 (Fig 21)
H. telephium 'Red Rum' **98**: 89
H. telephium 'Roseovariegatum' **98**: 89
H. telephium 'Ruby Glow' **45**: 58, **45**: 66, **46**: 97
 Illustration (flowering period) **82**: 86 (Fig 4)
H. telephium 'Touchdown Teak' **153**: 70
H. 'Thundercloud' **153**: 70
H. 'Thunderhead' **153**: 70
H. telephium subsp. *maximum* **53**: 48, **54**: 65-79, **59**: 11, **59**: 15-22, **74**: 89, **82**: 80, **83**: 6, **92**: 37-44, **96**: 32, **97**: 63, **101**: 68, **118**: 105, **122**: 86, **128**: 45, **130**: 86
 Distribution in Austria **54**: 71-76
 Distribution in Finland **92**: 37-44
 Illustration (flowering period) **82**: 86 (Fig 4)
 Illustration **54**: 71-76, **83**: 6 (Fig 5), **92**: 41 (Fig 23), **96**: 32 (Fig 5), **96**: 34 (Fig 9), **97**: 63 (Fig 22), **122**: 86 (Fig 7b), **122**: 88 (Fig 10), **128**: 45 (Figs 24a-c)

H. telephium subsp. *maximum* 'Atropurpureum' (see *Sedum telephium* subsp. *maximum* var. *atropurpureum*) **98**: 88, **153**: 70
H. telephium subsp. *maximum* 'Bronco' **98**: 88
H. telephium subsp. *maximum* 'Gooseberry Fool' **153**: 70, 71
 Illustration **153**: 72
H. telephium subsp. *maximum* 'Green Expectations' **98**: 88
H. telephium subsp. *maximum* 'Savill Burgundy' **98**: 89
H. telephium subsp. *maximum* 'Sunkissed' **98**: 89, **153**: 70
H. telephium subsp. *ruprechtii* (see *Sedum telephium* subsp. *ruprechtii*) **53**: 48, **92**: 37- 44
 Illustration (distribution in Finland) **92**: 39 (Fig 19), **153**: 70
 Illustration (flowering period) **82**: 86 (Fig 4)
 Illustration **92**: 39 (Fig 20), **92**: 40 (Fig 21), **92**: 41 (Figs 22 & 23), **92**: 43 (Fig 24)
H. telephium subsp. *ruprechtii* 'Beth's Special' **98**: 88
H. telephium subsp. *ruprechtii* 'Fiesta' **98**: 88
H. telephium subsp. *ruprechtii* 'Hab Grey' **98**: 88
H. telephium subsp. *ruprechtii* 'Pink Dome' **153**: 70
H. telephium subsp. *ruprechtii* 'Sandsturm'
H. telephium subsp. *telephium* **122**: 85-86, **128**: 45, **134**: 83
 Illustration **122**: 86 (Fig 7a), **128**: 45 (24a-c)
 Illustration (inflorescence) **120**: 42 (Fig 23)
H. telephium subsp. *telephium* 'Linda et Rodney' **98**: 89
H. telephium subsp. *telephium* 'Marchants Best Red' **98**: 89, **153**: (Fig 17)
H. telephium subsp. *telephium* 'Munstead Red' **45**: 58, **45**: 66, **46**: 90, **48**: 36, **98**: 89
 Illustration **45**: 66
H. telephium 'Strawberries & Cream' **48**: 36, **98**: 89, **153**: 70
H. telephium 'Xenox' **98**: 89
 Illustration **153**: 69 (Fig 19)
H. telephoides (see *Sedum telephoides*) **80**: 34-35
 Illustration **41**: 37, **80**: 34 (Figs 2 & 3), **80**: 35 (Figs 4 & 5)
H. 'Thua' **98**: 91, **136**: 11
 Description **85**: 52-53
 Illustration **85**: 53 (Fig 1)
H. 'Thundercloud' **88**: 42-43, **89**: 71, **98**: 91
 Illustration **88**: 42 (Fig 12)
 Illustration (inflorescence) **88**: 43 (Fig 13)
H. 'Václav Plestil's Red' **98**: 91, **136**: 8
 Illustration **136**: 8 (Fig 8)
H. 'Veluwse Wakel' **98**: 91, **153**: 70
H. 'Vera Jameson' (see *Sedum 'Vera Jameson'*) **45**: 59, **98**: 91, **153**: 70
H. ussuriense **131**: 15-21 (Figs 22 & 23)
H. ussuriense 'Chuwangsan' **131**: 15 (Fig 20)
H. ussuriense 'Pink Beacon' **131**: 20
H. ussuriense 'Turkish Delight' **131**: 20, **153**: 70
H. ussuriense ssp. *tsugaruense* **131**: 20
H. verticillatum
 Illustration **136**: 3 (Fig 3), **155**: 113 (Fig 3)
H. viridescens **131**: 19
H. viviparum **142**: 67-69
 Illustration **142**: 67-68 (Figs 17-19),
H. 'Washfield Purple' (see *Hylotelephium* 'Purple Emperor')
H. 'Washfield Ruby' (see *Hylotelephium* 'Purple Emperor')

H. 'Whetstone' (see *Sedum* 'Whetstone')
H. 'Xenox' (*Hylotelephium telephium* 'Xenox'), **153**: 70

Jovibarba

J. allioni **101**: 68-69
 Illustration **101**: 68 (Fig 8)
J. globifera subsp. *hirta* 'Alaska' **88**: 41-42, **89**: 71
 Illustration **88**: 41 (Figs 11a & 11b)
J. globifera subsp. *lagariniana* (syn. *Sempervivum globiferum* subsp. *lagarinianum*) **96**: 31-36
 Illustration **96**: 32 (Fig 6), **96**: 33 (Figs 7 & 8), **96**: 34 (Fig 9), **96**: 35 (Fig 10)
J. heuffelii **84**: 31, **85**: 61, **92**: 25, **105**: 61, **119**: 12, **140**: 18-20, **146**: 60, 68-69
 Illustration **75**: 6 (Fig 3), **84**: 32 (Figs 4 & 5), **92**: 25 (Fig 5), **96**: 34 (Fig 9),
 105: 62 (Figs 5 & 6), **119**: 12 (Fig 8), **140**: 18-20 (Figs 26-35), **146**: 68 (Figs 17 & 18)

Kalanchoe

K. arborescens **130**: 81-84
 Illustration **130**: 82 (Fig 2), **130**: 83 (Fig 3)
K. beauverdii **151**: 98
 Illustration **151**: 97 (Fig 27), 98 (Fig. 28)
K. beharensis **106**: 83
 Illustration **107**: cover
K. blossfeldiana **82**: 97
K. CALANDIVA® **82**: 95-97, **86**: 81-82
 Illustration **82**: 96 (Figs 11 & 12)
 Illustration (fasciation) **86**: 81 (Figs 8a & 8b)
K. curvula **142**: 70
K. densiflora **147**: 92
K. farinacea **85**: 57-58, **94**: 81-83
 Illustration **85**: 58 (Fig 6), **94**: 82 (Figs 15 & 16)
K. jongmansii **142**: 70
K. leblanciae **142**: 70,
K. luciae **112**: 42-43
 Illustration **112**: 42-43 (Figs 20 & 21)
K. luciae x *K. sexangularia* (see *K.* 'Vivien')
K. manginii **142**: 70
K. maramokotrensis **142**: 70
K. miniata **142**: 70
K. petitiana **147**: 91-93
K. prolifera **142**: 70
K. robusta **87**: 18, **94**: 81-83
 Illustration **85**: 59 (Fig 7) (caption subsequently corrected), **94**: 84 (Fig 17)
K. rotundifolia **94**: 81-83, **113**: 75

- Illustration **94**: 85 (Figs 18 & 19), **113**: 75 (Figs 26 & 27)
K. scapigera **94**: 81
K. sexangularis **112**: 42-43
 Illustration **112**: 43 (Fig 21)
K. socotrana **94**: 83
K. spathulata (?) **153**: 54
 Illustration **153**: cover
K. 'Vivien' **112**: 40-43
 Illustration **112**: 40-43 (Figs 16-21)
K. x houghtonii **146**: 56
 Illustration **146**: 56 (fig 1)

Lenophyllum

- L. guttatum* **98**: 79-81
 Illustration **98**: 80 (Figs 14 & 15), **98**: 81 (Fig 16)

Lewisia

- L. cantelovii* **89**: 57
L. cotyledon
 Illustration **146**: 55 (Fig c)

Meterostachys

- M. sikokiana*
 Illustration **49**: 52

Monanthes

- M. brachycaulos* **147**: 98
 Illustration **147**: 99 (Fig 22)
M. laxiflora **102**: 98, **109**: 58-60, **125**: 60, **125**: 61
 Illustration **102**: 98 (Fig 8), **109**: 59 (Figs 5 & 6), **125**: 60 (Fig 19), **125**: 62 (Fig 20),
151: 91 (Fig. 16 erroneously captioned *M. laxum*)
M. lowei **118**: 92-93
 Illustration **93**: 66 (Figs 22, 23a & b)
 Illustration (postage stamp) **118**: 92 (Fig 10)
 Propagation **93**: 65-67
M. minima **150**: 59, 60
 Illustration **150**: 62 (Fig 19 a,b,c)
M. muralis **118**: 102, 149: 40-42
 Illustration **118**: 100 (Figs 27 & 28), **149**: 41 (Fig 19), 42 (Figs 21 & 22)
M. pallens **125**: 60
 Illustration **125**: 60
M. polyphylla **85**: 53-55

- Illustration **150**: 57 (Fig 12)
M. polyphylla subsp. *amydros* **125**: 59-60, **125**: 61
 Illustration **125**: 59 (Fig 17), **125**: 62 (Fig 20)
M. subrosulata **118**: 99-103
 Illustration **118**: 101 (Figs 24-26)
 Illustration (Habitat) **118**: 100 (Figs 22 & 23)
M. x isabellae nothosubsp. *gomerensis* **125**: 61-63
 Illustration **125**: 62 (Fig 20), **125**: 63 (Fig 21)

Montia

- M. parviflora* **89**: 58

Mucizonia

- M. campanulata*
 Illustration **21**: 9
M. hispida
 Illustration **16**: 16

Oliveranthus (Oliverella) *see Echeveria*

- 150**: 67
 Illustration **150**: 67 (Fig 31)

Orobanche

- O. uniflora* **88**: 40
 Illustration **88**: 40 (Fig 10)

Orostachys

- O. aggregatum* **43**: 7
O. aggregata fa *rosea* **133**: 75
 Illustration **133**: 75 (Fig 27)
O. boehmeri (see *Hylotelephium boehmeri*) **123**: 18-19
 Illustration **93**: 64 (Fig 19)
O. fimbriatus
 Illustration **137**: 33 (Fig 1)
O. genkaiense **43**: 7
O. 'Genkai-Iwarenge'
 Illustration **43**: 12

- O. iwarenge* (see *Hylotelephium chongsunense*) **43**: 7
O. iwarenge 'Houou'
 Illustration **109**: 76 (Figs 33a & b)
O. iwarenge 'Kujaku' **44**: 49
O. japonica **82**: 98, **126**: 84-85
 Illustration **126**: 84 (Fig 1), **126**: 85 (Fig 2), **151**: 102 (Fig 38)
O. japonica var. *polycephala* **133**: 74
O. japonica var. *erubescens* **133**: 74
O. limuloides **133**: 75
O. malacophylla var. *iwarenge* 'Genkaiense' **43**: 7, **43**: 12
O. malacophylla var. *malacophylla* **43**: 7
- O. malacophylla* var. *aggregata* (see *Hylotelephium malacophyllum* var. *aggregatum*)
 Illustration **93**: 5 (Fig 20)
O. malacophylla var. *genkaiensis* **133**: 74
O. paradoxa (see *Hylotelephium paradoxum*) **49**: 50, **49**: 61
 Illustration **49**: 62
O. spinosa **72**: 43-44, **90**: 82-86, **92**: 33, **139**: 89
 Illustration **103**: 25 (Fig 32), **139**: 90 (Figs 19a-d), **140**: 6 (Fig 5 as *O. minuta*),
 Illustration (fascinated flowering stem) **90**: 83 (Fig 7)
 Illustration (flowering) **72**: 43 (Fig 9)
 Illustration (inflorescence) **72**: 44 (Fig 10)
 Illustration (in situ) **92**: 33 (Figs 10 & 11)
127: 13-14
 Illustration (flowering) **127**: 13 (Figs 15 & 16), **127**: 14 (Fig 17)
O. spinosa var. *thyrsiflora* **92**: 33
O. thyrsiflora **139**: 87
 Illustration **139**: 91 (Fig 20)

Oxalis

- O. pes-caprae* (invasive weed) **112**: 32-33, **122**: 94-96
 Illustration **112**: 33 (Fig 2), **122**: 96 (Fig 18)

Pachypodium

- P. namaquanum* **120**: 31

Pachyphytum

- 150**: 67
 Illustration **150**: 67 (Fig 32) petal appendages
P. bracteosum **83**: 9
P. brevifolium **79**: 2
 Illustration **79**: cover
P. fittkaui **97**: 54-55

Illustration **97**: 54 (Figs 7 & 8)
P. hookeri **83**: 8, **89**: 58
P. oviferum **88**: 46
Illustration **103**: 25 (Fig 31)
P. viride **97**: 55

Parvisedum

P. congdonii **33**: 13, **34**: 17
Illustration **33**: 12
P. leiocarpum **33**: 13
P. pentandrum **33**: 13
Illustration **33**: 12
P. pumilum **33**: 13, **34**: 16
Illustration **34**: 17, **35**: centerfold

Pediocactus

P. simpsonii **108**: 46-49

Petrosedum

P. albescens (see *Sedum ochroleucum* subsp. *mediterraneum*) **114**: 109, **126**: 90-91
Illustration **126**: 90 (Fig 9), **126**: 91 (Fig 10)
P. amplexicaule (see *Sedum amplexicaule*) **81**: 62-63, **82**: 94-95, **93**: 61-63, **100**: 52, **102**: 103, **112**: 35, **113**: 72, **122**: 94-95, **127**: 8, **130**: 80, **143**: 76-77, 147: 91
Illustration **81**: 62 (Fig 4), **102**: 103 (Fig 15), **122**: 95 (Figs 16 & 17), **130**: 80 (Fig 1), **140**: 14 (Fig 20), **147**: 91 (Fig 14)
P. amplexicaule subsp. *amplexicaule* (see *Sedum amplexicaule* subsp. *amplexicaule*) **93**: 61-63, **123**: 15
Distribution map (Turkey) **111**: 18 (Fig 22)
Illustration **93**: 62 (Figs 14 & 15), **123**: 15 (Figs 20 & 21), **143**: 77 (Fig 4), map **143**: 77 (Fig 5)
P. amplexicaule subsp. *tenuifolium* (see *Sedum amplexicaule* subsp. *tenuifolium*) **82**: 94, **92**: 26, **93**: 61-63, **100**: 50, **100**: 52, **107**: 16, **108**: 29, **111**: 17, **112**: 38, **132**: 36, **148**: 8
Illustration **93**: 62-63 (Figs 16 & 17), **143**: 77 (Fig 3), map **143**: 77 (Fig 5)
P. dianium **114**: 109
P. erectum **105**: 66-72, **121**: 57-59
Illustration **105**: 67 (Fig 12), **105**: 69 (Fig 13), **105**: 70 (Fig 14), **121**: 57 (Fig 1), **121**: 58 (Fig 2), **121**: 59 (Fig 3)
P. forsterianum (see *Sedum forsterianum* and *Petrosedum rupestre*) **82**: 94, **90**: 81, **97**: 55-56, **107**: 19, **112**: 32, **113**: 72-74, **117**: 62-64, **125**: 64, **147**: 80, 88, **148**: 2, **150**: 50, 52
Distribution **97**: 56 (Fig 7)
Illustration **107**: 19 (Fig 25), **117**: 79 (Fig 25), **125**: 64 (Fig 24), **147**: 80 (Fig 1), 89 (Figs 8-10), **150**: cover, 50 (Fig a)
P. forsterianum fm. *elegans* **94**: 93, **120**: 24-26

Illustration **120**: 26 (Fig 3)
P. forsterianum subsp. *elegans* 'Silver Stone' **81**: 71-74
 Illustration **81**: 73 (Fig 15), **81**: 71 (Fig 14)
P. montanum (see *Sedum montanum*) **82**: 94, **87**: 17, **95**: 5-7, **97**: 56, **101**: 67-70, **120**: 47-48, **122**: 88, **128**: 42-44, **132**: 41, **140**: 14-16,
 Illustration **95**: 8 (Fig 7), **101**: 70 (Fig 12), **120**: 50-51 (Figs 32 & 33), **128**: 43 (Fig 21), (anomalous inflorescence) 44 (Fig 23), **132**: 41 (Fig 18), **140**: 14 (Fig 21), 17
P. montanum fm. *lunigianica* **128**: 42-44
 Illustration **128**: 44 (Fig 22)
P. montanum fm. *lunigianicum* (see *Petrosedum montanum* fm. *lunigianica*) **130**: 79
P. montanum subsp. *montanum* (see *Sedum montanum* subsp. *montanum*) **87**: 16, **105**: 66-72
P. montanum subsp. *orientale* (see *Sedum montanum* subsp. *orientale*) **82**: 94, **95**: 7, **98**: 73, **105**: 66-72
P. montanum x *P. rupestre* **87**: 16-17
 Illustration **87**: 18 (Fig 13)
P. monteferraticum 143: 80-83
 Illustration 143: 81 (Figs 9, 10), 82 (Figs 11, 12, 14), 83 (Figs 15 & 17)
P. ochroleucum (see *Sedum ochroleucum*) **82**: 94, **84**: 31, **87**: 16, **92**: 25-26, **97**: 56-57, **98**: 73, **103**: 17-18, **105**: 64, **129**: 57, **130**: 80, **130**: 84-85, **132**: 34, 36, **137**: 42-44, **140**: 15, 17, **144**: 22, **148**: 2, 8, 18, **149**: 34, 36, **152**: 13, **154**: 93, 94
 Distribution **132**: 34 (Fig 4),
 Illustration **84**: 30 (Figs 3a & 3b), **103**: 17 (Fig 20), **132**: 36 (Fig 8), **137**: 43 (Figs 19a & 19b), **140**: 15 (Fig 23), **148**: 11 (Fig 12), 18 (Fig 25) map, **149**: 34 (Fig 10)
 Illustration (cristate form) **130**: 84 (Fig 5), **152**: 12 (Fig 18)
P. pruinatum (see *Sedum pruinatum*) **82**: 92-95, **113**: 74
 Illustration **82**: 93 (Fig 9), **82**: 94 (Fig 10), **113**: 74 (Figs 24 & 25)
P. reflexum (see *Sedum reflexum*) **105**: 66-72, **107**: 19, **121**: 56
 Illustration **104**: 55 (Fig 30), **143**: 82 (Figs 13 & 14)
P. rupestre (see *Sedum rupestre* and *Petrosedum forsterianum*) **82**: 94, **87**: 17, **97**: 62, **101**: 67, **104**: 48-55, **107**: 19, **109**: 64, **118**: 82, **118**: 105, **119**: 13-16, **120**: 47, **148**: 2- 3, **150**: 52
 Illustration **104**: 49 (Fig 26), **104**: 55 (Fig 29), **118** : cover, **119**: 14 (Figs 11 & 12), **122** : 84, **131**: 2 (Fig a), **140**: 14-17
P. rupestre fma *floris-precocis* **119**: 15
P. rupestre subsp. *erectum* (see *Sedum rupestre* subsp. *erectum*) **82**: 94, **97**: 55-57, **98**: 72-73
 Distribution **97**: 56 (Fig 8), **98**: 72 (Fig 1)
 Distribution (Type locality) **97**: 57 (Fig 9)
 Illustration **98**: cover, **98**: 73 (Fig 2)
P. rupestre subsp. *rupestre* (see *Sedum rupestre* subsp. *rupestre*) **87**: 16, **97**: 55-56, **119**: 15
 Illustration **97**: 62 (Fig 18), **140**: 13 (Fig 19),
P. rupestre 'Angelina's Teacup' 154: 87
P. sediforme (see *Sedum sediforme*) **82**: 94, **87**: 16, **88**: 43-44, **90**: 79, **90**: 81, **98**: 86-88, **99**: 9-11, **105**: 70, **106**: 97-99, **109**: 67, **111**: 4, **111**: 17, **113**: 74, **117**: 62-64, **120**: 24-25, **122**: 84-86, **123**: 13, **125**: 64, **130**: 80, **132**: 34, 36, 40-41, **134**: 87, 90-95, **140**: 16-17, **148**: 7, **149**: 37, 39
 Distribution map (Turkey) **111**: 18 (Fig 22), (Kefallonia) **132**: 34 (Fig 4), **134**: 91-92 (Figs 87, 9), **143**: 76 (Fig 2), **144**: 22, **147**: 80

Illustration **88**: 43 (Figs 14 & 15), **98**: 87 (Fig 22), **99**: 12 (Fig 15), **106**: 98 (Fig 19), **111**: 5 (Fig 1), **112**: 33 (Fig 3), **120**: 24 (Fig 1), **120**: 25 (Fig 2), **132**: 36 (Fig 9), 40-41: (Figs 15-17), 134: 91-95 (Figs 8, 10-13), **140**: 16 (Fig 24), **147**: 80 (Fig 1)

Illustration (purple form) **124**: 47 (Fig 32), **125**: 64 (Figs 22 & 23), **131**: 2 (Fig a)
P. sediforme (var. *dianium*) **137**: 48-51

Illustration **137**: 48 (Fig 24), 49 (Fig 25), 50 (Fig 26), 51 (Fig 27)

P. subulatum (see *Sedum subulatum*) **122**: 99-103

P. thartii **121**: 56, **140**: 15-17, **143**: 80-83

Illustration **138**: 55, **140**: 15 (Fig 22), **143**: 83 (Figs 16 & 17)

P. x affomarcoi **136**: 23-24

Illustration **136**: 23 (Fig 23), 24 (Fig 24)

P. x brevierei **113**: 88

P. x estrelae (*P. fosterianum* x *P. sediforme*) **117**: 62-65, **125**: 64, **147**: 80

Illustration **117**: 64 (Figs 6 & 7), **147**: 80

P. x hegnaueri **113**: 88

P. x henkii **113**: 88

P. x lorenzoi **113**: 88

P. x luteolum **105**: 71

P. x nicaeense **113**: 88, **121**: 62

P. x pascalianum **113**: 88

Phedimus

P. aizoon (see *Sedum aizoon*) **82**: 88, **99**: 25-27, **101**: 70-74, **118**: 85, **134**: 83, 154: 104

Illustration **82**: 85 (Fig 3) (flowering period), **99**: 26 (Fig 30) (Leaves), **137**: 33 (Fig 2), **154**: 104 (Fig 28)

P. aizoon 'Aurantiacum'

Illustration (flowering period) **82**: 85 (Fig 3)

P. aizoon var. *aurantiacus* **99**: 25

P. aizoon var. *floribundus* **99**: 25

Illustration (flowering period) **82**: 85 (Fig 3)

Illustration **56**: 37

P. aizoon var. *scabrus*

Illustration **82**: 85 (Fig 3) (flowering period), **155**: 112 (Fig 21)

P. 'Alexa'

Illustration **105**: 65 (Figs 10 & 11)

P. ellacombeanus (see *Sedum ellacombeanus*) **99**: 7, **99**: 24-27, **101**: 70-74, **138**: 63, **149**: 26-27, 152: 14-15

Illustration **99**: 7 (Fig 4), **143**: 85 (Fig 22), **152**: 15 (Fig)

Illustration (flowering period) **82**: 85 (Fig 3)

Illustration (leaves) **99**: 24 (Fig 27), **101**: 71 (Fig 13)

P. ellacombeanus 'Cutting Edge'

Illustration **118**: 87 (Fig 2)

P. floriferus 'Hemuli'

Description **124**: 35-39

Illustration **124**: 36 (Fig 19), 124: 38 (Fig 21), **124**: 39 (Fig 22)

Illustration (inflorescence) **124**: 37 (Fig 20)

P. hybridus **72**: 45-46, **77**: 61, **82**: 84-85, **92**: 26, **99**: 25, **101**: 70-74, **113**: 58-59, **139**: 87, 88

- Illustration **82**: 90 (Fig 6), **91**: 32 (Fig 9), **139**: 89 (fig 16), **153**: 65 (Fig 13b)
 Illustration (flowering period) **82**: 85 (Fig 3)
 Illustration (leaves) **99**: 25 (Fig 28), **101**: 73 (Fig 15)
P. hybridus 'Czar's Gold' **82**: 84-85, **96**: 2, **99**: 25, **101**: 71-74
 Illustration **96**: cover
 Illustration (leaves) **99**: 25 (Fig 28), **101**: 72 (Fig 14)
P. hybridus 'H3' **101**: 72-74
 Illustration (leaves) **101**: 74 (Fig 17)
P. hybridus 'Immergünchen' **101**: 72-74
 Illustration (leaves) **101**: 72 (Fig 14)
P. hybridus 'Jan Erik' **101**: 72-74
 Illustration (leaves) **101**: 73 (Fig 16)
- P. hybridus* 'Vasa' **101**: 72-74
 Illustration (leaves) **101**: 73 (Fig 16)
- P. kamtschaticus* **99**: 25-27, **101**: 70-74, **105**: 65, **118**: 85, **127**: 3, **134**: 83,
 Illustration **56**: 37, **82**: 85 (Fig 3) (flowering period), **99**: 27 (Fig 31), **101**: 74 (Fig 74),
109: 79 (Fig 37), **127**: 3 (Fig 1), **146**: 74
P. kamtschaticus floriferus 'Weihenstephaner Gold' **82**: 84-85
 Illustration (flowering period) **82**: 85 (Fig 3)
P. kamtschaticus 'Variegatus' **124**: 35-39
 Illustration **116**: 55 (Fig 39), **124**: 39 (Fig 22)
P. middendorffianus **82**: 83-85, **86**: 91, **92**: 31, **99**: 25
 Illustration (flowering period) **82**: 85 (Fig 3), **143**: 79 (Fig 5)
 Illustration (leaves) **99**: 26 (Fig 29)
P. middendorffianus ssp. *arcuatus* **131**: 27
P. middendorffianus var. *diffusus* **86**: 91
 Illustration (leaves) **99**: 26 (Fig 29), **143**: 79 (Fig 6)
P. middendorffianus 'Striatus' **143**: 79 (Fig 7)
P. obtusifolius (see *Sedum obtusifolium*) **59**: 10, **72**: 34, **79**: 5-7, **108**: 33-34, **111**: 25-27,
134: 83,
 Distribution (Turkey) **79**: 7 (Fig 6), **108**: 34 (Fig 12)
 Illustration **72**: 34 (Fig 8), **79**: 6 (Figs 4 & 5), **108**: 33 (Figs 11a & b), 34 (Figs 11c & d), **111**: 26 (Fig 32), 27 (Figs 33 & 34)
P. obtusifolius (see *Sedum obtusifolium*) **59**: 10, **72**: 34, **79**: 5-7, **108**: 33-34, **111**: 25-27,
134: 83, **141**: 31-32 (as *S. milii*)
 Distribution (Turkey) **79**: 7 (Fig 6), **108**: 34 (Fig 12),
 Illustration **72**: 34 (Fig 8), **79**: 6 (Figs 4 & 5), **108**: 33 (Figs 11a & b), 34 (Figs 11c & d), **111**: 26 (Fig 32), 27 (Figs 33 & 34), **141**: 33 (Figs 8a & 8b)
P. oppositifolius (see *P. spurius albus*) **129**: 66-71
 Illustration (line drawing) **129**: 69 (Fig 29)
P. pseudohybridus **131**: 27
P. seskianus **99**: 27, **152**: 14-15
 Illustration (flowering period) **82**: 85 (Fig 3), **149**: (Fig a), **152**: 15 (2 figs)
P. seliskianus 'Goldilocks' **76**: 30-31
 Illustration **76**: cover, **143**: 84 (Figs 21a & b)
P. spurius **53**: 41, **59**: 10, **87**: 22, **91**: 9, **96**: 28, **97**: 64, **108**: 26, **109**: 78, **113**: 58-59,
118: 85, **129**: 66-71, **134**: 83, 86, **144**: 21
 Illustration (flowering period) **82**: 85 (Fig 3)
 Illustration **53**: 42, **134**: 86 (Fig 3),
 Illustration (green carpet) **109**: 78 (Figs 35 & 36)

- Illustration (location) **71**: 10 (Fig 6)
 Illustration (variegated sport) **127**: 6
 Invasive **130**: 79
 Location **71**: 6-10
P. spurius albus (see *P. oppositifolius*) **71**: 10, **129**: 66-71
 Illustration **129**: 68 (Fig 28)
 Illustration (line drawing) **129**: 69 (Fig 29)
P. spurius 'Cream Split' **76**: 33, **77**: 60-61
 Illustration **76**: 33 (Fig 7)
P. spurius 'Fuldaglut' **118**: 86
P. spurius 'Green Mantle' **99**: 7
 Illustration **99**: 7 (Fig 5)

P. spurius 'John Creech'
 Description **60**: 40-42
 Illustration **60**: 98
P. spurius 'Leningrad White'
 Description **60**: 40-43
 Illustration **60**: 105, **117**: 59 (Figs 6 & y)
P. spurius 'Raspberry Red' **143**: 74
 Illustration **143** (cover)
P. spurius 'Splendens'
 Illustration (flowering period) **82**: 85 (Fig 3)
P. spurius 'Tricolor' **76**: 33, **77**: 60-61, **98**: 84-86, **105**: 65
 Illustration **98**: 85 (Figs 19 & 20)
 Illustration (reversion of foliage) **105**: 65 (Fig 9)
P. spurius var. *oppositifolius* **59**: 9
P. stellatus **41**: 48, **73**: 53-54, **73**: 56, **99**: 11, **111**: 4, **116**: 41-43, **132**: 34, 36, **134**: 83, 87, **154**: 94-96
 Distribution **132**: 34 (Fig 4),
 Illustration **78**: cover, **99**: 12 (Fig 16), **116**: 42-43 (Figs 11-14), **131**: 13-14 (Fig 19), **134**: 87-88 (Figs 4-6), **154**: 95 (Fig 15)
P. stoloniferus **59**: 10, **71**: 7-9, **72**: 45, **79**: 4, **107**: 2, **118**: 85, **120**: 28-29, **123**: 21, **138**: 63-64
 Illustration **120**: 28 (Fig 5), **131**: 3 (Fig b), **138**: 64 (Figs 11 & 12)
 Illustration (Flowering) **71**: 7 (Fig 3)
 Illustration (flowering period) **82**: 85 (Fig 3)
P. takesimense (see *Sedum takesimense*) **51**: 10-11, **72**: 36-37, **72**: 45, **82**: 83
 Illustration (flowering period) **82**: 85 (Fig 3)
P. takesimensis 'Atlantis' **137**: 37-38
 Illustration **137**: 38 (Fig 11)
P. x pilosa **131**: 27
P. yangshanicus **134**: 83

Pilea

- P. perperomioides* **81**: 75
P. serpyllacea **81**: 75-76
 Illustration **81**: 75 (Fig 16)

Pistorinia

- P. brachyantha* **82**: 78, **115**: 6-7
Illustration **82**: cover, **115**: 6 (Fig 8), **115**: 7 (Figs 9a-c)
P. brevifolia **50**: 82
P. brevifolia subsp. *intermedia* 114: 116
Illustration **114**: 116 (Figs 29a-c)
P. brevifolia subsp. *intermedia* 'Marie'
Illustration **31**: 1

Prometheum

- P. aizoon*
Classification **71**:11
P. chrysanthum **101**: 62
Classification **71**:11
P. muratdagense **101**: 62, **148**: 23, **154**: 87
Illustration **154**: 89 (Fig 6)
Classification **71**:12
Illustration **71**:12 (Fig 7), **101**: 62 (Figs 3a & 3b), **148**: 23 (Figs 32a & b), (Fig 33)
map
P. pilosum **59**: 10
Classification **71**:12
Illustration **120**: cover
P. rechingeri
Classification **71**:12
Illustration **71**:12 (Fig 8)
P. sempervivoides **100**: 52, **109**: 67
Illustration **155** (cover)
Classification **71**:12
Distribution map (Turkey) **100**: 53
Illustration **75**: 21 (Fig 25), **100**:53 (Fig 20)
P. serpentinicum **101**: 60-63, **116**: 48-49
Classification **71**:12
Illustration **101**: 61 (Figs 1a & 1b), **101**: 62 (Figs 2 & 3c), **116**: 49 (Figs 25 & 26)
Illustration (Inflorescence) **116**: 48 (Fig 24)
P. serpentinicum var. *giganteum*
Illustration **71**:13 (Fig 9)
P. tymphaeum **84**: 42, **86**: 78
Classification **71**:12
Illustration **84**: 42 (Fig 11a & 11b), **86**: 78 (Fig 1)

Pseudosedum

- P. campanulifolia* **39**: 6-7, **58**: 104
Illustration **58**: 104

P. condensatum **39**: 7, **60**: 25-26
 Illustration **60**: 25
P. fedtschenkoanum **39**: 6-7
 Illustration **39**: centrefold
P. ferganense **139**: 88
P. kuramense **59**: 1-2
 Illustration **59**: 1-2
P. lievenii **139**: 88, 89
 Illustration **139**: 89 (Figs 17&18),
P. longidentatum **131**: 6-8 (Figs 7 & 8)

Rhodiola

32: 8, **32**: 13, **33**: 5, **33**: 17, **33**: 19, **34**: 4, **34**: 11, **34**: 24, **35**: 6, **35**: 23-24, **36**:
 6-8, **150**: 67
 Illustration **150**: 67 (Fig33)
R. algida **92**: 36
 Illustration **92**: 35 (Fig 16), **106**: 100 (Fig 24)
R. amabilis (see *Sedum amabile*)
 Illustration **51**: 29, **75**: 6 (Fig 4), **81**: 67 (Fig 8), **115**: 25 (Fig 34)
R. affin. amabilis (see *R. fui*)
R. angusta **104**: 46-47, **131**: 19
 Illustration **104**: 47 (Figs 21-23)
R. atuntsuensis **154**: 105
 Illustration **154**: 106 (Fig 33), 107 (Fig 34)
R. bupleuroides (see *Sedum bupleuroides*) **74**: 95-100, **77**: 63-64
 Illustration **74**: 100 (Fig 10), **77**: 68 (Fig 18), **77**: 69 (Fig 22), **129**: cover, **129**: 50
 (Fig x)
R. chrysanthemifolia **105**: 76-77
 Description **104**: 42-43
 Illustration **104**: 43 (Fig 18), **105**: 76 (Fig 19)
 Illustration (inflorescence) **104**: 42 (Fig 17), **105**: 77 (Fig 20)
R. coccinea **93**: 55, **139**: 87
 Illustration **93**: 56 (Fig 6), **139**: 87 (Fig 12),
R. crassipes **142**: 58
 Illustration **142**: 58 (Fig 8)
R. crenulata **77**: 63
 Illustration **77**: 69 (Fig 20 & 21)
R. cretinii subsp. *cretinii* **77**: 63-64
 Illustration **77**: 67 (Figs 13), **77**: 68 (Figs 17 & 19), **77**: 70 (Fig 23)
R. discolor
 Illustration **75**: 7 (Fig 5), **75**: 8 (Fig 6)
R. dumulosa (see *Sedum dumulosum*) **81**: 67, **125**: 70
 Illustration **125**: 69 (Fig 32), **148**: 5 (Fig 3)
R. fastigiata (see *Sedum fastigiatum*) **77**: 62-63, **137**: 34
 Illustration **77**: 64 (Fig 6), **77**: 65 (Fig 9), **77**: 66 (Fig 11), **137**: 34 (Fig 5)

- R. fui* (see *R. affin. amabilis*) **112**: 34-35
 Illustration **112**: 34 (Fig 4), **112**: 35 (Fig 5)
- R. gelida* **139**: 87
- R. handelii* **78**: 97-98
- R. heterodonta* **137**: 34, **139**: 87, **142**: 58
 Illustration **84**: cover, **137**: 34 (Fig 4), **142**: 58 (Fig 9)
- R. himalensis* (see *Sedum himalense*) **77**: 63
 Illustration **77**: 67 (Figs 14, 15 & 16)
- R. hobsonii* **50**: 80, **78**: 97-98
- R. humilis* **78**: 97
 Illustration **151**: 103 (Fig 39 as *S. barnesianum*)
- R. integrifolia* (see *Sedum integrifolium*) **55**: 6, **90**: 76, **96**: 40-41, **101**: 64, **106**: 99-100
 Illustration **90**: 7 (Fig 2), **96**: 42 (Fig 13), **101**: 64 (Fig 3), **106**: 100 (Fig 21)
- R. integrifolia* subsp. *leedyi* (see *Sedum integrifolium* subsp. *leedyi*) **55**: 6
- R. integrifolia* subsp. *neomexicana* **55**: 7
- R. integrifolia* subsp. *procera* **55**: 7
- R. ishidae* **121**: 69, **131**: 8-11, **137**: 35
 Illustration **131**: 9 (Fig 9), 10 (Fig 10), **137**: 35 (Fig 7)
- R. kaschgarica* **139**: 87
- R. kirilowii* **77**: 62, **139**: 87, **154**: 105
 Illustration **135**: 114 (Fig 8), **154**: 106 (Fig 32)
- R. litwinowii* **139**: 87
- R. linearifolia* (see *Sedum linearifolium*) **93**: 53-55, **137**: 35, **139**: 86, 87
 Illustration **93**: 54 (Fig 3), **93**: 55 (Fig 4), **137**: 35 (Fig 6), 139: 86 (Fig 11)
- R. macrocarpa* **99**: 13-14
 Illustration **99**: 13 (Fig 17 & insert)
- R. marginata* **74**: 95-99
 Illustration **72**: 101 (Fig 11)
- R. pachyclados* (see *Sedum pachyclados*) **78**: 97-99
- R. pamiroalaica* **139**: 87
- R. prainii* **74**: 95, **74**: 98
- R. primuloides* **78**: 97
 Illustration **121** : 60, **135** : 114 (Fig 10)
- R. quadrifida* **93**: 52-55, **111**: 8, **142**: 58
 Illustration **93**: 52 (Figs 1 & 2), **111**: 8 (Fig 6)
- R. recticaulis* **139**: 87
- R. rhodantha* (see *Sedum rhodanthum*) **55**: 8, **101**: 66 (Fig 6)
 Illustration **101**: 66, **106**: 100 (Fig 23)
- R. rosea* (see *Sedum rosea*) **37**: 5, **38**: 17, **44**: 41, **48**: 33, **48**: 36, **50**: 80, **55**: 8, **82**: 98, **87**: 14-16, **92**: 34-36, **93**: 53, **95**: 6, **107**: 20-21, **115**: 31, **118**: 85, **120**: 36-37, **120**: 48, **121**: 67-69, **123**: 3, **131**: 19, **133**: 55, **137**: 36-37, **144**: 20, **146**: 61-67, **148**: 2-3, **149**: 39
 Illustration **48**: 36, **92**: 34 (Fig 14), **92**: 35 (Fig 15), **95**: 6 (Fig 4), **106**: 100 (Fig 22), **107**: 20 (Fig 28 & 29), 21 (Fig 30 & 31), **114**: Cover, **120**: 37 (Fig 19), **122**: Cover, **123**: 3 (Fig x), **137**: 36 (Figs 8 & 9), 37 (Fig 10), **146**: 62 (Fig 8), 63 (Figs 9 & 10), 64 (Fig 11), **148**: 3 (Fig a), **149**: 39 (Fig 17)
 Propagation **88**: 32-34, **87**: 15 (Fig 12), **88**: 33 (Fig 1)
- R. saxifragoides* **78**: 97
 Illustration **78**: 99 (Fig 16)
- R. semenowii* **139**: 87
- R. smithii* **77**: 54-55, **77**: 64, **78**: 97-98

- Illustration **77**: 54 (Fig 2), **77**: 70 (Fig 24), **78**: 99 (Fig 15)
R. sinuata **152**: 4-6
 Illustration **152**: 4 (Fig 1), 5 (Fig 2), 6 (Fig 3)
R. sp. **110**: 101-103
 Illustration **110**: 102 (Figs 21, 22, 23 & 24)
 Illustration (inflorescence) **110**: 101 (Fig 20), **110**: 103: (Figs 25 & 26)
R. stapfii **74**: 95-99
R. tibetica **111**: 8
 Illustration **111**: 8 (Fig 6)
R. tsangpotibetanum **78**: 98
R. wallichiana (see *Sedum wallichianum*) **37**: 21, **77**: 62, **111**: 8
 Illustration **111**: 8 (Fig 6), **116**: 44-45 (Figs 15-18)
R. yunnanensis **154**: 104
 Illustration **121**: 61, **135**: 114 (Fig 9), **148**: 5 (Fig 4), **154**: 105 (Fig 30)

Rosularia

- R. adenotricha* **53**: 31
R. aizoon
 Reclassification **71**:11
R. alpestris **93**: 55-57, **139**: 90,
 Illustration **93**: 55 (Fig 5), **93**: 57 (Fig 7), **139**: 91 (Figs 21a,b)
R. chrysanthra
 Reclassification **71**:11
R. cypria
 Illustration (Postage stamp) **39**: 14
R. glabra **139**: 90, 91
 Illustration **139**: 91, 92 (Figs 22 & 23)
R. globulariifolia **60**: 29, **94**: 94-95, **100**: 53, **109**: 68, **111**: 9, **113**: 68-71, **115**: 21-22
 Distribution **94**: 94 (Fig 24)
 Illustration **94**: 95 (Fig 25), **111**: 9 (Fig 9), **113**: 69 (Fig 15)
R. lutea **139**: 90
R. pallidiflora **100**: 53, **101**: 76-78, **113**: 69-71
 Distribution map (Turkey) **100**: 53
 Illustration **101**: 76 (Fig 20), **113**: 70 (Figs 16 & 17)
R. platyphylla **139**: 90 (as *borissovae*), 91
 Illustration **139**: 93 & 94 (Figs 24 & 25)
R. radicata **139**: 90
R. rechingeri
 Reclassification **71**:12
R. rosulata **119**: 16-17
R. sempervivoides **72**: 32
R. sempervivum **72**: 31-33, **100**: 50, **100**: 52, **111**: 9
 Illustration **75**: 5 (Fig 2), **100**: 50 (Fig 16), **111**: 9 (Fig 9)
R. sempervivum subsp. *glaucophylla* **80**: 29-30, **100**: 52, **108**: 29

Illustration **80**: 30 (Fig 2), **108**: 30 (Fig 4), **155**: 131 (Fig 28)
R. sempervivum subsp. *pestalozzae* **59**: 7, **80**: 29-30, **109**: 68-69, **113**: 68-71, **114**: 96, **116**: 41
 Illustration **59**: 96, **80**: 30 (Fig 3), **113**: 69 (Fig 14), **116**: 41 (Fig 10)
 Illustration (blue form) **109**: 68 (Fig 19)
 Illustration (variation – leaf colour) **114**: 96 (Fig 1)
R. sempervivum subsp. *sempervivum* **108**: 28-30
R. serpentinica (see *Prometheum serpentinicum*)
R. serpentinicum
 Reclassification **71**:12
R. serpentinicum var. *giganteum*
 Reclassification **71**:12
R. serrata **53**: 29, **59**: 8, **60**: 30-31, **88**: 44
 Illustration **52**: 39
R. x reginae **111**: 9
 Illustration **111**: 9 (Fig 8)
R. viguieri **126**: 102

Sedastrum

150: 68
 Illustration spp **94**: 75 (Fig 5), **94**: 76 (Fig 6), **150**: 68 (Fig 34)

Sedella

150: 68
 Illustration **150**: 68 (Fig 35)

Sedum

150: 68
 [species unknown]
 Illustration **99**: cover
S. acre **9**: 12, **11**: 8, **21**: 11, **22**: 6-7, **22**: 10, **23**: 5, **23**: 8, **23**: 12, **23**: 14-15, **23**: 23, **24**: 23, **25**: 23-24, **27**: 9-11, **27**: 22-24, **29**: 13, **30**: 4, **30**: 6, **31**: 21, **33**: 21, **34**: 6, **34**: 14, **36**: 8, **37**: 5, **37**: 6, **37**: 19, **38**: 5, **39**: 3, **39**: 5, **40**: 18, **42**: 53, **42**: 56, **42**: 71, **43**: 24, **44**: 28-33, **44**: 39, **44**: 43, **44**: 45, **45**: 72, **46**: 88, **46**: 99, **47**: 4, **47**: 15, **47**: 22-23, **48**: 32, **50**: 80, **50**: 85, **53**: 47, **55**: 15-24, **57**: 56-60, **58**: 100-101, **59**: 15-22, **82**: 98, **84**: 30-31, **85**: 61, **87**: 21-22, **91**: 11-12, **101**: 67, **103**: 16-17, **105**: 64, **108**: 26, **108**: 32-33, **109**: 64-65, **112**: 32, **116**: 36-39, **118**: 85, **119**: 12, **122**: 96-97, **129**: 58, **132**: 39, **134**: 83, **144**: 18, **148**: 8,11,12, 18, **149**: 35, 39, **150**: 52, 55, 152: 8
 Illustration **27**: 23, **41**: 25, **44**: 25, **44**: 52, **49**: 62, (Postage Stamp) **92**: 36 (Fig 17), **103**: 17 (Fig 19), **105**: 64 (Figs 8a & b), **108**: 26 (Fig x), **109**: cover, **109**: 65 (Fig 14), **116**: 38 (Figs 4 & 5), **122**: 97 (Figs 19 & 20), **132**: 37 (Fig 12), **136**: 12 (Fig 10), **144**:

- 18 (fig 14), **146**: 60, 74, **148**: 13 (Fig 18), **149**: 33 (Fig 9), **150**: 55 (Fig 9), **152**: 12 (Fig 17)
- S. acre* 'Aureum' **38**: 11
- S. acre* 'Krajinae' **37**: 22
- S. acre* 'Majus' (see *Sedum acre* var. *majus*) **31**: 21
- S. acre* 'Oktoberfest' **74**: 80
- Illustration **74**: 80 (Fig 1)
- S. acre* subsp. *neglectum* **41**: 30
- S. acre* var. *almadi* **41**: 43
- S. acre* var. *macrophyllum* **41**: 43
- S. acre* var. *majus* (see *Sedum acre* 'Majus') **26**: 18
- S. acre* var. *minus* **42**: 56
- S. actinocarpum* **4**: 4, **88**: 30, **150**: 76, **152**: 31-32
- Illustration **88**: cover, **150**: 76 (Fig 45), **152**: 31
- S. adolphi* **8**: 6, **25**: 10, **29**: 11, **29**: 14, **30**: 16, **18**: 13, **21**: 24, **31**: 17, **32**: 23, **37**: 10, **38**: 27, **46**: 96, **95**: 23-24
- Illustration **37**: centrefold
- Illustration (comparison of leaves) **95**: 23 (Fig 23)
- S. adolphii* (see *Sedum adolphii*)
- S. aetnense* (see *Sedum tetramerum*) **15**: 12, **37**: 19, **44**: 39, **45**: 72, **52**: 31, **55**: 15-24, **72**: 32-33, **92**: 26, **107**: 18, **108**: 35-36, **112**: 37, **112**: 39, **127**: 7, **144**: 20
- Distribution in Greece **56**: 49-50
- Distribution in Turkey **108**: 31 (Fig 7), **108**: 36 (Fig 15), **111**: 18 (Fig 22)
- Illustration **55**: 56, **56**: 50, **72**: 32 (Fig 6), **107**: 18 (Fig 22), **108**: 35 (Figs 13 & 14), **112**: 39 (Fig 15), **127**: 9 (Fig 9)
- S. aetnense* subsp. *aranjuezii* **127**: 7-10
- Illustration **127**: 8 (Fig 7), **127**: 9 (Fig 8)
- S. aetnense* subsp. *tetramerum* **127**: 8
- S. aetnense* var. *aetnense* **41**: 30
- Illustration **41**: 30
- S. aizoon* (see *Phedimus aizoon*) **22**: 9, **22**: 22, **23**: 19, **25**: 27, **31**: 18, **36**: 10, **38**: 3, **38**: 19, **42**: 72
- Illustration **39**: centerfold, **142**: 71 (Figs 24 & 25)
- S. aizoon* var. *angustifolium* **38**: 10
- S. alamosanum* **21**: 13
- Illustration **94**: 80 (Fig 14)
- S. albertii* **139**: 78, 87, 88
- Illustration **139**: (Front cover), 87 (Fig 13),
- S. albescens* (syn *Petrosedum albescens*) **50**: 93-94
- S. albomarginatum* **26**: 21, **40**: 2, **40**: 9-10, **89**: 57
- Illustration **40**: 2c, **89**: 55 (Fig 2), **89**: 56 (Figs 2 & 3)
- S. alboroseum* (see *Hylotelephium erythrostictum*) **21**: 23, **25**: 6
- S. alboroseum* 'Cream' **32**: 24
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S. cyprium **27**: 14-15, **27**: 20-21, **32**: 11, **39**: 8-13, **39**: 16, **111**: 13-15, **151**: 93-95
 Illustration **39**: centerfold, **111**: 13 (Figs 14 & 15), **111**: 14 (Fig 16), **151**: 94 (Fig. 21),
 95 (Figs 22 & 23)
S. cyrenaicum **56**: 62
S. dasyphyllum **21**: 11, **21**: 19-23, **22**: 20-21, **24**: 23, **25**: 24, **26**: 21-22, **30**: 4-9, **31**: 21, **32**:
 18-20, **33**: 4, **35**: 5, **35**: 11, **36**: 6-8, **37**: 5, **37**: 24, **38**: 9-11, **39**: 5, **40**: 18, **42**: 10254, **42**:
 56, **44**: 39, **44**: 34-44, **45**: 72, **46**: 88, **46**: 99, **47**: 15, **48**: 32, **50**: 76, **50**: 78, **50**: 80, **50**: 86,
54: 58-63, **56**: 42, **57**: 56-60, **58**: 100-102, **59**: 15-22, **78**: 83, **84**: 31, **90**: 81, **92**: 25, **93**: 50,
95: 5-6, **96**: 32, **97**: 61, **98**: 87, **99**: 9-12, **101**: 67, **106**: 83, **106**: 97-99, **107**: 11-13, **107**: 18,

108: 26, **108:** 29, **109:** 75, **112:** 32, **116:** 36-37, **122:** 85, **123:** 8-17, **130:** 85, **132:** 41, **134:** 87, **136:** 2, **145:** 29-32, **148:** 11-14, **149:** 26, 36, 37, **152:** 11, **154:** 95,
 Distribution map (Turkey) **100:** 53, **108:** 31 (Fig 8)
 Illustration **30:** 9, **54:** 62-64, **78:** 83 (Fig 4), **92:** 25 (Fig 4), **93:** cover, **97:** 61 (Fig 16),
98: 87 (Fig 23), **99:** 12 (Fig 14), **100:** 50, **100:** 52, **106:** 99 (Fig 20), **107:** 12 (Figs 13
 & 14), **108:** 26 (Fig x), **114:** 115 (Fig 27), **116:** 37 (Fig 3), **123:** 9 (Fig 10), **123:** 10
 (Figs 11 & 12), **123:** 11 (Fig 13), **123:** 17 (Fig 24), **130:** 85 (Fig 6), **142:** 60-61, **145:**
 29 (Fig 2), 30 (Fig 3), 31 (fig 5 & 6), 32 (fig 7), **148:** 13 (Fig 19), **149:** 38 (Figs
 16a,b,c), **150:** 52, **152:** 11 (Fig. 15), **154:** 96 (Fig 8)
 Illustration (anomalous flower) **95:** 5 (Fig 3).
 Illustration (epiphytic) **107:** 13 (Fig 15)
 Illustration (hirsute form) **123:** 12 (Fig 14), **136:** 2 (fig a)
 Illustration (minor form) **108:** 29 (Fig 3)
S. dasyphyllum 'Luigi Piradello' **37:** 19, **45:** 70
S. dasyphyllum fm. *donatianum* **54:** 59-60
S. dasyphyllum fm. *glaucum* **54:** 60-63
 Illustration **54:** 63
S. dasyphyllum subsp. *dasyphyllum* **107:** 11-13
S. dasyphyllum subsp. *glanduliferum* **22:** 21, **25:** 24, **32:** 2, **36:** 7, **37:** 4, **37:** 19, **44:** 39, **46:**
 88, **50:** 78, **54:** 61-63, **99:** 10, **99:** 12, **107:** 11-13
 Illustration **54:** 62, **99:** 10 (Figs 11 & 11a), **145:** 30 (fig 4)
S. dasyphyllum subsp. *glanduliferum* var. *elisae* **54:** 61-62
S. dasyphyllum subsp. *granatense* **44:** 39
S. dasyphyllum subsp. *oblongifolium* **114:** 114-116
 Illustration **114:** 115 (Fig 28)
S. dasyphyllum subsp. *suendermanni* **44:** 39
S. dasyphyllum var. *adenocladum* **37:** 5, **42:** 53, **54:** 60-62, **107:** 11-13
 Illustration **54:** 62
S. dasyphyllum var. *burnatii* **32:** 18-21, **37:** 19, **54:** 60
 Illustration **54:** 62
S. dasyphyllum var. *dasyphyllum* **44:** 39, **46:** 88
 Illustration **97:** 61 (Fig 15)
S. dasyphyllum var. *macrophyllum* **22:** 21, **50:** 76, **90:** 81, **90:** 81, **107:** 11-13
S. dasyphyllum var. *mesatlanticum* **38:** 18, **107:** 11-13, **145:** 32
 Illustration **145:** 32 (fig 8)
S. debile **24:** 11-13, **25:** 27-28, **38:** 11, **55:** 6, **58:** 96-97
 Illustration **24:** 11, **58:** 82-83
S. decumbens **16:** 3-4, **21:** 23, **28:** 19, **28:** 30, **34:** 15, **38:** 6, **38:** 9, **42:** 59, **50:** 95, **54:** 80
 Illustration **16:** 1, **16:** 3
S. delicum **27:** 10-11, **27:** 16, **41:** 48
S. dendroideum **23:** 13-14, **29:** 13, **16:** 5, **34:** 15, **35:** 21-22, **38:** 6, **38:** 10
 Illustration **16:** 5, **94:** 78 (Fig 11), **94:** 79 (Fig 12)
S. dendroideum var. *monticola* **34:** 15
S. diagremontianum **49:** 60
 Illustration **49:** 60c
S. diffusum **7:** 3-4, **25:** 3, **26:** 16, **50:** 85
 Illustration **7:** 1, **7:** 5, **25:** 1, **118:** 91 (Fig 7)
S. diminutum **42:** 61-62
S. dimorphophyllum **98:** 74
 Illustration **98:** 74 (Fig 3)
S. divergens **21:** 23, **29:** 14, **38:** 10-11, **39:** 19, **44:** 38, **55:** 6

Illustration **44**: 38c
S. divergens 'Giant Form' **46**: 97, **50**: 86
S. diversifolium **29**: 14-18
 Illustration **29**: 17
S. drymarioides **87**: 2, **152**: 34-35
 Illustration **87**: cover, 152: 34 (Fig 12)
S. duckbongii **131**: 19
S. 'Dudley Field' **34**: 3, **45**: 57, **45**: 66
S. dulcinomen **42**: 61-62
S. dumulosum (see *Rhodiola dumolosa*) **28**: 23-24, **38**: 11
S. durisii **31**: 17
S. ebracteatum **22**: 14, **25**: 8, **34**: 13, **50**: 88-89, **50**: 92, **97**: 65-66, **98**: 81, **122**: 82
 Distribution **97**: 66 (Fig 28)
 Illustration **72**: 41 (Fig 11), **122**: 81 (Fig 2)
S. edwardsii **43**: 20, **81**: 58, **81**: 60-61:
 Illustration **81**: cover, **81**: 60 (Fig 1), **81**: 61 (Fig 2)
S. ekimianum **18**: 9
 Description **19**: 14-15
 Illustration **19**: 14
S. elatinoides **21**: 24, **23**: 16, **23**: 18
S. elegans **28**: 16
S. ellacombianum (see *Phedimus ellacombianum*) **21**: 3, **31**: 19, **37**: 13, **38**: 10, **39**: 19, **50**: 85, **121**: 70
S. emarginatum **154**: 99
 Illustration **154**: 101 (Figs 21 & 22)
S. 'Erd Blut' **45**: 57, **45**: 66
S. erectum **35**: 6, **44**: 28-32
S. eriocarpum **41**: 48, **56**: 43, **59**: 7-8, **73**: 54-55, **76**: 31-32, **100**: 49-50, **115**: 13-16, **148**: 8, 149: 36
 Distribution (Greece) **115**: 16 (Fig 23)
 Illustration **148**: 8 (Fig 8)
S. eriocarpum subsp. *apertiflorum* **41**: 48, **56**: 45, **76**: 32
 Distribution (Greece) **115**: 16 (Fig 23)
S. eriocarpum subsp. *caricum* **41**: 48, **60**: 60-61
 Distribution (Turkey) **111**: 18 (Fig 22)
 Illustration **60**: 99-100, **112**: 38 (Figs 11 & 12)
S. eriocarpum subsp. *cycladicum* **128**: 34
 Illustration (distribution Greece) **128**: 34
S. eriocarpum subsp. *delicum* **41**: 48
S. eriocarpum subsp. *epiroticum* **41**: 48, **49**: 60, **132**: 33, 34-35, **137**: 41-42, **154**: 96
 Distribution (Greece) **115**: 16 (Fig 23), (Kefallonia) **132**: 34 (Fig 4),
 Illustration **49**: 60c, **110**: cover, **132**: 35 (Fig 5), **137**: 42 (Fig 18), **154**: 96 (fig 7)
S. eriocarpum subsp. *eriocarpum*
 Distribution (Greece) **115**: 16 (Fig 23), **131**: 11-15 (Figs 13, 14, 15, 17 & 18)
S. eriocarpum subsp. *orientale* **41**: 48, **107**: 18, **107**: 21, **108**: 29
 Distribution (Greece) **115**: 16 (Fig 23)
 Distribution (Turkey) **108**: 32 (Fig 9)
 Illustration **100**: 51 (Fig 17), **103**: 3, **107**: 22 (Fig 33), **108**: 30 (Fig 5)
S. eriocarpum subsp. *porphyreum* **41**: 48, **111**: 10
 Illustration **111**: 11 (Fig 10), 115: 15 (Figs 20-22)
S. eriocarpum subsp. *spathulifolium* **41**: 48, **74**: 83

Distribution (Greece) **115**: 16 (Fig 23)
 Illustration **74**: 83 (Fig 3), **115**: 14 (Fig 19)
S. erythrospermum **152**: 35-37
 Illustration **152**: 36 (Fig 13)
S. erythrostictum (see *Hylotelephium erythrostictum*) **34**: 13, **35**: 5, **36**: 6
S. erythrostictum 'Medio-variegatum' (see *Hylotelephium erythrostictum* var. *medio-variegatum*) **36**: 6
S. euxinum **15**: 14
 Illustration **15**: 14
S. ewersii (see *Hylotelephium ewersii*) **31**: 21, **37**: 20, **38**: 10
S. ewersii var. *homophyllum* (see *Hylotelephium ewersii* *homophyllum*) **25**: 7, **25**: 12-13, **37**: 20
S. fabaria (see *Sedum telephium* subsp. *fabaria* and *Hylotelephium* subsp. *fabaria*) **2**: 3, **22**: 6, **23**: 8, **23**: 14
 Illustration **2**: 1, **11**: 7
S. farinosum **41**: 27, **44**: 36, **47**: 3-5, **49**: 69, **120**: 38-39
 Illustration **47**: 12c, **47**: 37c, **120**: 38 (Fig 20)
 Illustration (inflorescence) **120**: 39 (Fig 21)
S. farronianum **25**: 2, **33**: 19
S. fastigiatum (see *Rhodiola fastigata*) **25**: 5, **34**: 11, **45**: 56
S. flexuosum **25**: 23
S. formosanum **29**: 13, **152**: 37-38
 Illustration **89**: cover, **117**: 66 (Fig 11), **152**: 37 (Fig 14)
S. forrestii **31**: 17
S. forsterianum **28**: 23
S. forsterianum (see *Petrosedum forsterianum*) **9**: 13, **26**: 12, **28**: 11, **28**: 15, **28**: 18, **28**: 20-21, **28**: 23, **30**: 5, **30**: 7, **34**: 9, **38**: 10, **39**: 5, **39**: 19, **42**: 59, **44**: 30, **44**: 40, **44**: 43, **44**: 45, **45**: 72, **47**: 15, **58**: 103, **59**: 15-22
 Illustration **28**: 16, **104**: 52 (Fig 28)
S. fragans **21**: 10, **23**: 2, **23**: 21, **23**: 23, **24**: 23, **86**: 79-81, **101**: 68-69, **133**: 59-63
 Illustration **23**: 22, **86**: 79 (Figs 3a & 3b), 80-81 (Figs 4-7), **101**: 68-69 (Figs 9-11), **115**: 25 (Fig 35), **133**: 59 (Fig 7), 63 (Figs 10-12)
S. franchetii **31**: 17
S. 'Frosty Morn' (see *Hylotelephium erythrostictum* 'Frosty Morn') **37**: 18
S. frutescens **38**: 5
S. 'Fuldaglut' **45**: 57
S. furfuraceum **26**: 24, **27**: 3-5, **38**: 6, **42**: 59, **53**: 53, **79**: 12, **81**: 67, **121**: 63-66
 Illustration **121**: 64 (Fig 8), **121**: 65 (Fig 9 & 10), **121**: 66 (Fig 11)
 Illustration (habitat) **121**: 63 (Fig 7)
S. fuscum **115**: 9-11
 Illustration **115**: 9-11 (Figs 12-15)
S. fusiforme **44**: 36, **45**: 60-64, **47**: 4-7, **47**: 8-10, **47**: 12, **49**: 67, **49**: 70-71, **145**: 26, 34-38
 Illustration **47**: 12c, **145** (cover), 35 (figs 12-14), 36 (fig 15), 37 (fig 16),
S. gagei **77**: 63
 Illustration **77**: 67 (Fig 12)
S. gattefossei **35**: 9
S. glabrum **25**: 8, **43**: 20, **50**: 88-89, **50**: 92, **97**: 66-67, **98**: 81
 Distribution **97**: 66 (Fig 27)
 Illustration **97**: 67 (Fig 30)
 Illustration (inflorescence) **98**: 82 (Fig 17)
S. glandulosum **21**: 6

- S. glomerifolium* **135**: 116-120, **136**: 16-19
 Illustration **135**: 116 (Fig 12), **117** (Figs 13 & 14), **118** (Fig. 15), **119** (Fig 16 & 17),
 120 (Fig 18), **136**: 17 (Fig 15), 18 (Fig 16), 19 (Fig 17 & 18)
- S. glaucophyllum* (see *Sedum nevii*) **21**: 19, **23**: 6, **26**: 16, **31**: 20, **38**: 10, **41**: 27, **42**: 69,
55: 6, **143**: 85-87
 Illustration **143**: 86 (Fig 25), 87 (Fig 26)
- S. 'Golden Glow'* (see *Sedum adolphii*)
- S. 'Goldii'* (see *Gratopetalum goldii*)
 Illustration **3**: 1
- S. goldmanii* **46**: 107, **117**: 72-73, 150: 64
 Illustration **117**: 73 (Figs 18 & 19), **150**: 64 (Fig 21)
- S. gracile* **21**: 23, **26**: 9, **29**: 21, **30**: 20, **31**: 23, **41**: 43, **59**: 9-10, **79**: 4
 Illustration **71**: 9 (Figs 4 & 5)
- S. granatense* **30**: 7-8
- S. grandepetalum* **48**: 48
- S. grandiflorum* **25**: 6
- S. 'Green China'* **134**: 104
- S. 'Green Rose'* **45**: 96
- S. greggii* **22**: 15, **29**: 17-18, **48**: 48
 Illustration **155**: 131 (Fig 28)
- S. greggii* subsp. *angustifolium* **22**: 15
- S. griffithsii* **22**: 23, **28**: 30, **29**: 2-6
- S. grisebachii* **15**: 15, **25**: 23, **25**: 25, **36**: 6, **40**: 18, **58**: 102, **59**: 15-22, **84**: 28-31,
117: 67-71
 Illustration **84**: 30 (Fig 2), **117**: 68 (Figs 12 & 13)
- S. grisebachii* var. *grisebachii* **104**: 38-41, **117**: 67-71
 Illustration **104**: 38 (Figs 10, 11 & 12), **104**: 41 (Fig 16)
- S. grisebachii* var. *horakii* **104**: 38-41, **117**: 67-71
 Illustration **104**: 39 (Fig 13), **104**: 40 (Fig 14), **117**: 69 (Fig 14)
- S. griseum* **10**: 3, **24**: 3, **38**: 6, **42**: 57, **106**: 103, **149**: 28-31
 Illustration **149**: 30 (Fig 4), 31 (Fig 5)
- S. aff griseum* **149**: 28-31
 Illustration **149**: 28 (Figs 1 & 2), 29 (fig 3)
- S. guadalajaranum* **24**: 3, **38**: 6, **46**: 96, **106**: 103
 Description **11**: 3-4
 Illustration **11**: 1, **11**: 4
- S. guatemalense* **29**: 14
- S. guettardii* **41**: 44
- S. gypsicola* / *gypsicolum* **21**: 23, **23**: 6, **26**: 21, **29**: 15, **30**: 4-5, **30**: 8, **30**: 13, **37**: 19, **38**:
 11-12, **41**: 31, **41**: 35, **44**: 39, **45**: 72, **46**: 87-88, **46**: 94, **50**: 84, **58**: 102, **59**: 15-22, **75**: 23,
78: 83, **79**: 12-13, **90**: 81, **123**: 16, **129**: 65-66, **149**: 37, 39
 Illustration **26**: 21, **41**: 35, **46**: 94c, **75**: 23 (Fig 27), **83** (Fig 5), **90**: 80 (Figs 5 & 6),
123: 16 (Figs 22 & 23), **129**: 65 (Fig 25), **133**: 64-65
 Illustration (leaf) **129**: 66 (Figs 26 & 27), **133**: 64 (Figs 13a & b)
- S. gypsicola* subsp. *trinacriae* **125**: 70-72
 Illustration **125**: 70 (Fig 33), **125**: 71 (Figs 34 & 35)
- S. gypsophila* / *gypsophilum* **43**: 20-21, **61**: 60, 64: 48, **91**: 19
 Illustration **61** (Figs 114 & 115), **64** (outer colour centrefold)
- S. hakonense* **21**: 5, **41**: 43
- S. hakonense* 'Chocolate Ball' **96**: 36
- S. havardii* **41**: 43

- S. 'Harvest Moon'* **34**: 3, **36**: 3, **50**: 85
- S. hemsleyanum* **25**: 8, **35**: 21, **41**: 43, **50**: 88-89, **50**: 92, **97**: 66, **98**: 81
 Distribution **97**: 66 (Fig 29)
 Illustration **126**: 86 (Fig 5), 87 (Fig 87), **153**: 59 (Fig 6)
- S. henriquesii* **44**: 40
- S. hernandezii* **26**: 24, **27**: 3-5, **28**: 29, **38**: 18, **46**: 92, **46**: 94
 Illustration **27**: 4, **46**: 93-94
- S. hidakense* 'Rubellum' (see *Hylotelephium* 'Hidakense') **38**: 10
- S. hierapetrae* **27**: 10, **37**: 14, **52**: 44
- S. hillebrandtii* **44**: 28
- S. himalense* (see *Rhodiola himalensis*) **34**: 11, **34**: 24, **35**: 23-24
- S. hintonii* **25**: 8, **42**: 57, **42**: 66, **50**: 87-89, **50**: 91-92, **75**: 10-12
 Illustration **50**: 91, **75**: 11 (Figs 9-11), **75**: 12 (Fig 12)
- S. hintoniorum* **43**: 20, **44**: 48
 Illustration **43**: 12
- S. hirsutum* **16**: 15, **22**: 17, **24**: 23, **29**: 19, **32**: 10-13, **32**: 21, **33**: 16, **34**: 8, **34**: 11, **37**: 22, **38**: 13, **39**: 5, **44**: 40, **45**: 72, **47**: 15, **52**: 45, **53**: 31-32, **56**: 47, **97**: 61, **97**: 64
102: 100, **113**: 71-73, **122**: 86, **127**: 7, **132**: 41, **147**: 90, 91
 Illustration **97**: 61 (Figs 13 & 14), **101**: 67, **102**: 100 (Fig 11), **113**: 73 (Figs 22 & 23), **145**: 48 (fig 20),
- S. hirsutum* subsp. *baeticum* **44**: 40
 Illustration **117**: 78 (Fig 24)
- S. hispanicum* (see *Sedum aytacianum*) **22**: 9, **22**: 17, **24**: 14-15, **24**: 23, **25**: 24, **25**: 28, **26**: 6, **26**: 10, **27**: 9, **27**: 11, **29**: 3, **34**: 6, **34**: 23, **35**: 11, **36**: 20-21, **38**: 11, **40**: 14-18, **41**: 48, **42**: 53, **42**: 56, **44**: 30, **44**: 33, **44**: 43, **48**: 32, **48**: 36, **49**: 60, **71**: 5-9, **72**: 45, **73**: 53-55, **74**: 89-90, **79**: 4, **80**: 29, **83**: 6, **85**: 61, **86**: 78, **91**: 14, **92**: 26, **101**: 78, **105**: 61, **107**: 2, **109**: 56, **116**: 36-39, **117**: 67-71, **118**: 85, **119**: 12, **122**: 98, **129**: 58, **130**: 84, **131**: 22-24, **132**: 34-35, **134**: 89, **144**: 20, 23, **146**: 60, **148**: 8, 11, 12, 13, 18, **149**: 32, 36, **152**: 13, **154**: 95, 97
 Distribution (Turkey) **109**: 56 (Fig 1), (Kefallonia) **132**: 34 (Fig 4),
 Illustration **48**: 36, **52**: 38, **74**: cover, **74**: 90, **85**: 63 (Fig 10b), **101**: 77 (Figs 21a-d), **109**: 56 (Fig 2), **115**: 18 (Fig 25), **115**: 19 (Fig 26), **116**: 36 (Figs 1a & b), **116**: 37 (Fig 2), **116**: 40 (Fig 9), **117**: 70 (Figs 15 & 16), **118**: 107 (Fig 35), **122**: 98 (Figs 21a & 21b), **129**: 59 (Fig 19), **132**: 35 (Fig 6), **148**: 10 (Fig 11), 14 (Figs 20 & 21), 15 (Fig 22), **149**: 36, **155**: 131 (Fig 28)
- S. hispanicum* fm. *durabilis* **129**: 71-72
 Illustration **129**: 72 (Fig 30)
- S. hispanicum* (see *Sedum hispanicum* fm. *durabilis*) **130**: 79
- S. hispanicum* var. *eriocarpum* **37**: 19, **41**: 35
 Illustration **41**: 35
 Nomenclature **130**: 86-88
- S. hispanicum* var. *hispanicum* **115**: 17
 Illustration **115**: 17 (Fig 24)
- S. hispanicum* var. *minus* **21**: 20, **31**: 15, **31**: 21, **42**: 56, **80**: 36, **84**: 40-41, **96**: 30
 Illustration **80**: 36 (Fig 6), **84**: 40 (Figs 9 & 10), **84**: 46 (Fig 15)
- S. hispanicum* var. *planifolium* **109**: 56, **111**: 17, **112**: 39
 Distribution (Turkey) **111**: 18 (Fig 22)
 Illustration **111**: 17 (Fig 21), **111**: 19 (Figs 23, 24 & 25), **111**: 20 (Fig 26)
- S. hispanicum* 'Silver Carpet' **31**: 15
- S. hultenii* **26**: 16, **42**: 57
- S. humifusum* **18**: 11, **36**: 6, **42**: 57
 Illustration **18**: 11, **103**: 26 (Fig 33), **118**: 91 (Fig 8), **118**: 92 (Fig 9), **128**: cover

S. hybridum **22**: 9, **34**: 6, **35**: 11, **38**: 10, **39**: 19, **44**: 33, **44**: 43, **50**: 85
S. idaeum (see *Sedum laconicum* var. *idaeum*) **25**: 23
S. imbricatum **26**: 4
S. incarum
 Illustration **155**: 117 (Fig 8)
S. indicum var. *yunnanensis* (see *Sinocrassula yunnanensis*)
S. integrifolium (see *Rhodiola integrifolia*) **34**: 11
S. integrifolium subsp. *leedyi* (see *Rhodiola integrifolia* subsp. *leedyi*) **23**: 20
S. involucratum **41**: 43
S. ishidae **17**: 7, **28**: 24, **30**: 20, **37**: 21, **38**: 10-11
S. jaccardianum **32**: 8-12, **35**: 9-10, **38**: 16, **39**: 21
 Illustration **32**: centerfold
S. jaeschkei (syn. *S. oreades*) **114**: 100-101
 Illustration **114**: 101 (Fig 5)
S. jahandiezii **47**: 5, **49**: 69
S. jalscanum **22**: 14-15
S. japonicum **26**: 16, **29**: 13, **38**: 11, **39**: 19, **45**: 69, **48**: 35
 Illustration **117**: 66 (Fig 9)
S. japonicum var. *pumilum* **77**: 52
 Illustration **77**: 53 (Fig 1)
S. japonicum subsp. *boninense* **77**: 52
S. japonicum subsp. *japonicum* **77**: 52
S. japonicum subsp. *japonicum* var. *senanense* **77**: 52
S. japonicum subsp. *oryzifolium* **77**: 52
 Illustration **77**: 53 (Fig 1)
S. japonicum subsp. *japonicum* var. *oryzifolium* (see *S. japonicum* subsp. *oryzifolium*) **77**: 52
S. japonicum subsp. *oryzifolium* (see *S. japonicum* subsp. *japonicum* var. *oryzifolium*) **112**: 49
 Illustration **112**: 49 (Fig 27)
S. japonicum subsp. *uniflorum* **77**: 52
S. jiuhuashanense **49**: 57-58
S. 'Joyce Tulloch' **70**: 86-88, **136**: 15,
 Illustration **70**: 86 (fig 5), **136**: 15 (Fig 13)
S. jujuyense **73**: 59-60, **73**: 68, **73**: 70-72, **74**: 91
 Illustration **73**: 58 (Figs 5a & b), **73**: 59 (Fig 6), **73**: 71 (Figs 8 & 9)
S. jurgensenii **46**: 107,
S. jurgensenii ssp. *attenuatum* **114**: 102-105
 Description **53**: 44-46
 Illustration **53**: 46-47, **114**: 102 (Fig 7), **114**: 104 (Figs 12 & 13)
S. jurgensenii ssp. *jurgensenii* **114**: 102-105
 Illustration **114**: 102 (Fig 7), **114**: 103 (Figs 8-10), **114**: 105 (Figs 14-16)
S. kamtschaticum **21**: 3, **21**: 19, **31**: 19, **34**: 6, **35**: 11, **38**: 10-11, **39**: 7, **39**: 19, **44**: 33, **48**: 35-36, **48**: 40, **50**: 85
S. kamtschaticum var. *floriferum* **31**: 19, **34**: 6, **39**: 3
S. 'Keston' **35**: 23-24, **35**: 23
 Illustration **35**: centrefold
S. kimnachii **54**: 80,
 Distribution (UK) **103**: 2, **136**: 3
 Illustration **136**: 3 (Fig b), **155**: 130 (Fig 25)
S. kirilowii **35**: 24

S. kirilowii var. *rubrum* **35**: 24, **45**: 56
S. kiusianum (see *Sedum polytrichoides*) **96**: 38
S. kostovii **25**: 23, **38**: 18, **41**: 43
S. krajinae **22**: 7, **22**: 10, **44**: 32
S. laconicum **24**: 24, **25**: 23-25, **27**: 9, **27**: 15-16, **35**: 6, **40**: 14-18, **40**: 23-24, **41**: 48, **44**: 28-29, **81**: 63, **92**: 26, **109**: 69, **132**: 32-33, 34, **148**: 8, 11, 12, 18, **149**: 34, 35, 36, **150**: 52
 Distribution map (Turkey) **100**: 53, (Kefallonia) 132 (Fig 4),
 Illustration **40**: 23-24, **59**: 88, **109**: 69 (Fig 20), **132** (Figs 1, 2 & 3), **138**: 75 (Fig 21),
148: 11 (Fig 13), 12 (Fig 14), 149: 33 (Fig 8)
S. laconicum var. *idaeum* (see *Sedum idaeum*) **25**: 23
S. laconicum var. *insulare* **27**: 9, **27**: 15, **40**: 18, **52**: 38-40, **53**: 31-32
S. 'Ladislav Hlavaty' **29**: 22, **34**: 3, **35**: 5, **36**: 6
S. lagascae **21**: 6-7, **32**: 13, **44**: 40, **45**: 72, **146**: 73
 Illustration **21**: 7
S. lampusae **27**: 20-21, **32**: 11, **38**: 19, **39**: 8-16, **151**: 95
 Illustration **39**: centerfold, **40**: 15, **85**: 68 (Fig 12b),
 Illustration (postage stamp) **39**: 1
S. lanceolatum **22**: 22, **40**: 10, **41**: 43, **45**: 69, **45**: 70, **55**: 7, **73**: 74, **89**: 57, **92**: 31,
101: 63-66, **108**: 46-49
 Illustration **55**: 54, **73**: 74 (Fig 10), **82**: 91 (Figs 7), **82**: 92 (Figs 9), **101**: 65 (Fig 4),
101: 66 (Fig 5) **108**: 46 (Figs 23a & b), **108**: 47 (Figs 24 & 25), **108**: 48 (Fig 26),
108: 49 (Fig 28)
S. lanceolatum subsp. *nesioticum* **55**: 7
S. lanceolatum subsp. *subalpinum* **55**: 7, **108**: 48
 Illustration **108**: 48 (Fig 27)
S. lancerottense **41**: 43, **45**: 60, **47**: 4, **47**: 6, **47**: 8-10, **47**: 12, **49**: 67, **49**: 71, **102**: 95-99
 Illustration **47**: 12c, **102**: 96 (Fig 5)
 Illustration (habitat) **102**: 97 (Figs 6 & 7)
S. latiovalifolium **131**: 19
S. lahovaryanum **143**: 88
S. laxum **4**: 16, **23**: 6, **37**: 22, **37**: 24, **38**: 18, **38**: 21-22, **40**: 9, **55**: 7
S. laxum subsp. *eastwoodiae* **38**: 22, **55**: 7
S. laxum subsp. *flavidum* **38**: 22, **87**: 8-10, **150**: 70
 Illustration **87**: 9 (Fig 5a & 5b), **150**: 70 (Fig 41)
S. laxum subsp. *heckneri* **23**: 6, **38**: 22, **45**: 58, **55**: 7, **88**: 40
S. laxum subsp. *latifolium* **55**: 7, **87**: 13-14
 Illustration **87**: 12 (Figs 9 & 10)
S. laxum subsp. *laxum* **38**: 22, **88**: 39
 Illustration **88**: 39 (Figs 8 & 9), **88**: 40 (Fig 10)
S. laxum subsp. *perplexum* **22**: 23
S. leibergii **15**: 7, **55**: 7
S. leucarpum **41**: 43
S. leveilleum **49**: 51
S. liebmannianum **27**: 5, **41**: 43
 Illustration **41**: 37c
S. lineare **21**: 5, **21**: 24, **23**: 16-17, **29**: 13, **34**: 12, **39**: 19, **46**: 97, **48**: 28, **49**: 57-58, **152**: 38-39
 Illustration **110**: 85 (Fig 3), **136**: 5 (Fig 2), **143**: 88, **155**: 113 (Fig 4)
S. lineare var. *variegatum* **22**: 22, **38**: 10, **46**: 96
 Illustration **116**: 54 (Fig 34)
S. linearifolium (see *Rhodiola linearifolia*) **8**: 3, **11**: 22, **28**: 23

- Illustration **8**: 1, **8**: 5
S. 'Little Gem' **18**: 10-12, **38**: 7, **42**: 57, **42**: 59
 Illustration **18**: 11
S. litorale **38**: 10-11, **39**: 19, **41**: 28
S. litoreum **25**: 24, **27**: 9-10, **27**: 16, **37**: 19, **39**: 7, **40**: 13-18, **41**: 36, **41**: 48, **52**: 7, **56**: 43-45, **73**: 53-54, **73**: 56, **74**: 82, **88**: 44, **103**: 12-18, **111**: 10, **115**: 4-5, **132**: 33-35, **148**: 8, **149**: 36, **154**: 94
 Illustration **73**: 54 (Fig 2), **103**: 13 (Fig 14), **103**: 14 (Fig 15), **103**: 15 (Figs 16 & 17), **103**: 16 (Fig 18), **111**: 6 (Fig 4), **111**: 11 (Fig 11), **115**: 5 (Fig 3), **131**: 11-14 (Fig 12), **132**: 35 (Fig 7), **154**: 94 (Fig 14)
 Illustration (distribution) **103**: 12 (Fig 12), **132**: 34 (Fig 4),
 Illustration (habitat) **103**: 13 (Figs 13a-c)
S. litoreum var. *creticum* **41**: 48, **52**: 37, **52**: 40, **53**: 30, **56**: 43-45, **74**: 83, **81**: 63
 Illustration **56**: 66, **74**: 83 (Fig 3 & 4)
S. longibracteatum **24**: 14-15, **25**: 28, **30**: 20, **80**: 29
S. longipes **22**: 15, **30**: 17, **46**: 96
S. longipes var. *rosulare* **41**: 43
S. lucidum **26**: 18, **38**: 27-28, **46**: 96, **87**: 4, **140**: 10-12
 Illustration **140**: 11 (Fig 13, 12 (Fig 17)
S. lucidum 'Obesum' **42**: 60, **42**: 72, **140**: 10-11,
 Illustration **140**: 10 (Fig 14)
S. lumholtzii **29**: 3, **54**: 54-56
 Illustration **54**: 48-49
S. x luteoviride **38**: 7, **155**: 130 (Fig 29)
S. lyidium **21**: 23, **34**: 6, **42**: 56, **44**: 33, **84**: 41, **112**: 35-37, **112**: 39
 Distribution map (Turkey) **111**: 18 (Fig 22)
 Illustration **112**: 36 (Fig 6), **112**: 37 (Fig 7)
S. macdonaldii **42**: 61-62, **43**: 20
S. macdougallii **23**: 3
 Illustration **23**: 1, **23**: 4, **131**: 5 (Fig 6)
S. magellense **27**: 9-11, **53**: 30, **81**: 64, **86**: 78, **109**: 69, **144**: 20, **149**: 35
S. magellense subsp. *olympicum* **27**: 9, **40**: 18, **56**: 41, **91**: 13, **92**: 22, **92**: 25
 Illustration **91**: 13 (Fig 10), **92** (cover)
S. maireanum **44**: 40, **45**: 72, **129**: 52-57 (description), **146**: 73
 Illustration **129**: 52 (Figs 1 & 2), **129**: 53 (Figs 3 & 4), **129**: 54 (Fig 5), (flowers) 55 (Figs 6a-c & 7), **56** (Fig 8), **138**: 75 (Fig 22), **146**: 73 (Fig 23)
S. makinoi **21**: 5, **21**: 21-22, **23**: 16, **39**: 19, **41**: 43, **57**: 61-68, **124**: 46-47,
 Illustration **142**: 70 (Fig 22)
S. makinoi 'Tundra Tornado'
 Illustration **107**: 6 (Fig 2)
S. maurum **35**: 9
S. maweanum **44**: 32
S. maximum **22**: 5, **22**: 10, **22**: 21, **23**: 14, **45**: 58, **50**: 95
 Illustration **33**: 1
S. maximum subsp. *jullianum* **22**: 10
S. maximum subsp. *maximum* **22**: 5
S. maximum subsp. *ruprechtii* **22**: 10
S. maximum subsp. *scherfellii* **22**: 10
S. melanenterum **30**: 8, **38**: 12, **44**: 39, **45**: 72, **47**: 4-5, **49**: 69, **146**: 73
 Illustration **108**: 45 (Fig 22)
S. mellitulum **27**: 7, **38**: 7

- S. mesoamericanum* **113**: 77
 Illustration **113**: 77 (Figs 31 & 32)
- S. mexicanum* **21**: 21, **22**: 17, **22**: 20, **22**: 22, **26**: 16, **26**: 18, **32**: 21, **40**: 17, **47**: 23, **57**: 61-68, **73**: 57, **84**: 36, **123**: 2, **137**: 31, **143**: 88, **152**: 39-41
 Illustration **58**: 99, **123**: cover, **152**: 40 (Fig 15)
- S. micranthum* **22**: 8
- S. microcarpum* **103**: 20-21, **111**: 10
 Illustration **103**: 20 (Fig 24), **103**: 21 (Figs 25a & b), **111**: 11 (Figs 10 & 11), **111**: 12 (Figs 12 & 13)
- S. microsepalum* **4**: 5, **152**: 41
 Illustration **152**: 42 (Fig 16)
- S. microstachyum* **27**: 20-21, **32**: 11, **39**: 6-16, **151**: 95
 Illustration **39**: centerfold
- S. middendorffianum* **21**: 3, **31**: 19, **38**: 10, **135**: 124-126
- S. middendorffianum* 'Striatum' **38**: 18
- S. millspaughii* **113**: 78
 Illustration **113**: 78 (Figs 33-35)
- S. miserum* **73**: 68
- S. mite* **27**: 22
- S. mocinianum* **50**: 87-89, **50**: 92
 Illustration **50**: 90
- S. modestum* **34**: 24, **35**: 7-10, **43**: 22, **35**: 7, **50**: 83, **114**: 112-114, **123**: 13-14, **151**: 97
 Illustration **34**: 1, **34**: 23, **35**: centerfold, **114**: 113 (Figs 23 & 24), **123**: 14 (Figs 17 & 18), **151**: 82 (Fig a), 96 (Fig. 25)
- S. 'Mohrchen'* (see *Hylotelphium telephium* 'Mohrchen') **37**: 21
- S. moniliforme* **133**: 54
- S. monregalense* **32**: 20, **33**: 4, **33**: 8-9, **42**: 52-53, **42**: 60, **50**: 86, **120**: 43-44
 Illustration **42**: 60, **120**: 43 (Fig 25), **120**: 44 (Figs 26 & 27)
- S. montanum* (see *Petrosedum montanum*) **21**: 11, **26**: 12, **28**: 11, **28**: 13, **28**: 21-22, **37**: 4-5, **42**: 53, **44**: 40, **45**: 72, **48**: 46, **57**: 57
- S. montanum* subsp. *montanum* (see *Petrosedum montanum* subsp. *montanum*) **26**: 12, **28**: 13-14, **42**: 53, **42**: 60
 Illustration **42**: 60
- S. montanum* subsp. *orientale* (see *Petrosedum montanum* subsp. *orientale* and also *Sedum thartii*) **26**: 12, **42**: 53, **48**: 32, **98**: 83
- S. 'Moon Glow'* **23**: 6, **45**: 58-59, **50**: 86
- S. moranense* **25**: 8, **26**: 18, **29**: 13, **35**: 21, **38**: 8, **41**: 46, **50**: 85, **133**: 65-68
 Illustration **133**: 65 (Fig 14), 66 (Figs 15 & 16), 67 (Fig 17), 68 (Fig 18), **139**: 83 (Fig 5), **155**: 130 (Fig 30)
- S. moranii* **5**: 17, **23**: 6, **38**: 21, **40**: 1, **40**: 9-10, **55**: 7, **88**: 38
 Illustration **40**: 1, **88**: 37 (Fig 5), **88**: 38 (Figs 6 & 7)
- S. morganianum* **6**: 6, **7**: 19, **24**: 4-5, **20**: 3, **38**: 6, **46**: 96, **115**: 2, **140**: 2-3,
 Illustration **20**: 3, **115**: cover, **115**: 2 (Fig 8) **140**: cover,
- S. morrisonense* **4**: 5, **37**: 22, **41**: 28, **53**: 39, **90**: 74, **112**: 49, **152**: 42-44
 Illustration **36**: 18c, **90**: cover, **112**: 49 (Figs 28 & 29), **150**: 78 (Fig 47), **152**: 43 (Fig 17)
- S. mucizonia* **26**: 10-11, **30**: 4-6, **32**: 13, **44**: 40, **45**: 72, **90**: 79, **92**: 45, **114**: 118-119, **123**: 13-14, **149**: 37
 Illustration **26**: 11, **92**: 45 (Fig 26), **114**: 119 (Fig 31 & 32), **123**: 13 (Fig 16), **138**: 75 (Fig 23), **145**: 49 (fig 21)
- S. mucizonia* subsp. *urceolatum* **25**: 2, **26**: 12

- S. multicaule* (see also *Sedum* affin. *multicaule*)
 Illustration **111**: 7 (Fig 5), **136**: 5 (Figs 4a& 4b)
- S. affin. multicaule* **41**: 43
 Description **100**: 42-43
 Illustration **100**: 4 (Figs 1 & 2)
- S. multiceps* **22**: 21, **29**: 13, **38**: 8, **46**: 89, **47**: 23, **100**: 55, **110**: 99-101, **147**: 82-88
 Illustration **100**: 55 (Fig 23), **110**: 99 (Fig 17), **147**: 83 (Fig 2), 84 (figs 3 & 4), 86 (Fig 5), 87 (Fig 6), 88 (Fig 7)
- S. multiflorum* **17**: 3-4, **22**: 15
- S. muscoideum* **26**: 16, **29**: 17, **34**: 15,
 Illustration **126**: 87 (Fig 7), **133**: 73 (Fig 26)
- S. nagasakianum* **21**: 4, **39**: 19, **41**: 43
 Illustration **21**: 1, **21**: 4, **51**: 32
- S. nanifolium* **8**: 9, **27**: 7, **41**: 43, **42**: 61-62, **42**: 65, **136**: 26-27,
 Illustration **8**: 10, **83**: 20 (Fig 11), **105**: 59 (Fig 2), **136**: 26 (Fig 27), 27 (Fig 28)
- S. nanshanchunense* **152**: 45
- S. napiferum* **112**: 50-51
 Illustration **112**: 50-51 (Figs 30-34)
- S. neglectum* **44**: 32
- S. neglectum* subsp. *orientale* **42**: 53, **48**: 32
- S. nevadense* **30**: 10, **44**: 40, **45**: 72, **46**: 88-89, **58**: 81-82, **117**: 71-72
 Illustration **58**: 81-82, **117**: 72 (Fig 17)
- S. nevii* **5**: 14, **23**: 6, **55**: 7
- S. nicaeense* **15**: 6, **22**: 19, **26**: 12, **26**: 21-22, **28**: 12, **35**: 13, **35**: 20, **39**: 7, **50**: 93, **131**: 2
 (Fig a) (*Petrosedum* sediforme)
- S. nicaeense* subsp. *sopiana* **50**: 93
- S. niveum* **21**: 13, **24**: 11-12, **29**: 3-4, **29**: 15, **55**: 7
- S. nokoense* **4**: 5, **96**: 39-40, **152**: 45-46
 Illustration **96**: 39, **152**: 45 (Fig 19)
- S. notarjanni* **136**: 9-11
 Illustration **136**: 10 (Fig 9)
- S. nudum* **44**: 36, **45**: 60-67, **47**: 4-6, **47**: 8-10, **47**: 12, **49**: 67, **49**: 70-72
 Illustration **45**: 66, **47**: 7, **47**: 12, **150**: 54 (Fig 6)
- S. nussbaumerianum* **8**: 6, **25**: 10, **37**: 10, **37**: 13, **38**: 7, **46**: 89, **46**: 96, **87**: 27, **95**: 23
 Illustration **18**: 13, **25**: 11, **37**: centerfold, **75**: 9 (Fig 8)
- S. nutans* **29**: 15
 Illustration **18**: 11
- S. nuttallianum* **3**: 8, **29**: 14, **42**: 61-62, **55**: 7, **106**: 85-92
 Cultivation **16**: 17
- Distribution (Comanche County) **106**: 89 (Fig 8)
 Distribution (Texas) **106**: 86
 Exploration **3**: 8-9
 Illustration (habitat) **106**: 86 (Fig 2), 87 (Fig 4), 89 (Fig 7), 90 (Fig 9), 91 (Fig 11)
- S. oaxacanum* **23**: 7, **29**: 15, **38**: 7, **97**: 48-52
 Illustration **94**: 79 (Fig 13), **97**: 50 (Fig 4)
- S. obcordatum* **26**: 14, **33**: 23, **34**: 18-20, **38**: 8-9, **41**: 43, **91**: 18, **141**: 26
 Illustration **34**: 12, **91**: 19 (Fig 12), **94**: 76 (Fig 7), **94**: 77 (Fig 8), **141** (cover), 29
 (Figs 2a & 2b), **155**: 130 (Fig 27)
- S. oblanceolatum* **5**: 17, **38**: 22, **40**: 9-10, **55**: 7, **88**: 35, **88**: 40
 Illustration **88**: 36 (Fig 2), **88**: 37 (Figs 3 & 4)
- S. obtusatum* **19**: 20-22, **23**: 6, **24**: 12, **26**: 19, **37**: 22, **38**: 21-22, **40**: 9, **53**: 39, **55**: 7

Illustration **19**: 21, **90**: 77 (Fig 1)
S. obtusatum subsp. *boreale* **38**: 23, **55**: 7, **89**: 52-53
 Illustration **89**: 53 (Fig 1)
S. obtusatum subsp. *obtusatum* **38**: 23
 Illustration **90**: 88 (Fig 9)
S. obtusatum subsp. *paradisum* **38**: 20, **38**: 23
S. obtusatum subsp. *retusum* **38**: 23, **55**: 7, **88**: 40
S. obtusifolium (see *Phedimus obtusifolius*) **32**: 4, **41**: 28, **48**: 46
 Illustration **32**: 2, **32**: centrefold
S. ochroleucum (see *Petrosedum ochroleucum*) **21**: 16, **23**: 5, **26**: 12, **28**: 11-12, **28**: 19-22, **37**: 5, **37**: 19, **38**: 10-11, **39**: 5, **40**: 13-14, **40**: 18, **41**: 36, **42**: 53, **44**: 30, **44**: 40, **48**: 46, **50**: 93-94, **55**: 15-24, **56**: 42, **57**: 56-60, **58**: 101, **59**: 15-22, **73**: 55, **120**: 23
 Illustration **21**: 17, **41**: 38, **73**: 56 (Fig 4)
S. ochroleucum subsp. *mediterraneum* (see *Petrosedum albescens*) **120**: 23
S. ochroleucum subsp. *montanum* **28**: 13
S. ochroleucum subsp. *orientale* **28**: 13-14
S. oligospermum **154**: 102-103
 Illustration **154**: (Fig 26)
S. orbatum **17**: 22-23, **121**: 71-73
 Illustration **17**: 22-23, **121**: 71 (Fig 13), **121**: 72 (Fig 14)
 Illustration (Inflorescence) **121**: 72 (Fig 15)
S. orbiculatum BSWJ 723 **131**: 15
S. oreades **97**: 58
 Illustration **97**: cover, **97**: 58 (Fig 10), **114**: (Fig 3)
S. oreganum **4**: 17, **25**: 27, **29**: 13, **31**: 20, **34**: 6, **38**: 11, **39**: 19, **44**: 33, **45**: 69, **55**: 8
S. oreganum subsp. *tenuis* **50**: 86, **55**: 8
S. oregonense **23**: 6, **38**: 11, **38**: 21, **40**: 9, **55**: 8
 Illustration **19**: 21
S. oryzifolium **10**: 3, **14**: 3-5, **26**: 14, **36**: 21, **45**: 61, **48**: 28, **77**: 52, **84**: 36
 Illustration **14**: 1, **14**: 4-5
S. oryzifolium 'Tiny Form' **38**: 18
S. oteroi **103**: 21-23
 Illustration **103**: 22 (Fig 26), 23 (Fig 27-28), **105**: 58 (Fig 1)
S. oxycoccoides **38**: 18, **42**: 54
 Illustration **10**: 1, 4
S. oxypetalum **22**: 11, **38**: 6, **38**: 18, **39**: 22, **138**: 54
 Illustration **138**: Cover, **139**: 83 (Fig 6)
S. pachyclados (see *Rhodiola pachyclados*) **6**: 3-5, **42**: 59
 Illustration **6**: 1
S. pachyphyllum **21**: 23, **38**: 6
 Illustration **94**: 78 (Fig 10)
S. pakistanicum 'Sarwar' **37**: 20-21
S. palaestinum **41**: 48
S. pallidum **24**: 24, **26**: 6-8, **27**: 10, **36**: 20-21, **40**: 18, **44**: 30, **59**: 9-10, **91**: 2, **116**: 36-40, **116**: 39-40, **134**: 90, **137**: 31, **144**: 20, **146**: 60, **150**: 63
 Illustration **91**: cover, **116**: 39 (Fig 7), **116**: 40 (Figs 8 & 9), **137** (Figs b & c), **146**: 61 (Fig 7), **155**: 129 (fig 24)
S. pallidum var. *bithynicum* (see *Sedum bithynicum*)
S. pallidum var. *pallidum* **24**: 24, **26**: 8,
S. palmeri **22**: 11, **31**: 22, **32**: 21, **34**: 20-21, **38**: 7-9, **40**: 17, **42**: 59, **43**: 20, **46**: 94, **46**: 96, **46**: 99, **50**: 85, **53**: 41-42, **73**: 57, **95**: 8, **96**: 43, **99**: 7, **103**: 6-9, **122**: 80-84, **152**: 13

Illustration **46**: 94, **95**: 8 (Fig 8), **99**: 8 (Fig 7), **103**: 7 (Figs 5a, 5b & 5c), 8 (Fig 6), 9 (Fig 7), **116**: 52 (Fig 31), **122**: 82 (Fig 4), 80 (Fig 1), 83 (Fig 5), **133**: 69 (Fig 19), **154**: cover, **155**: 130 (Fig 28)
S. palmeri subsp. *emarginatum* **122**: 81
S. palmeri subsp. *rubromarginatum* **133**: 73 (Fig 25)
S. palmeri 'Guatemalan Mini' **90**: 92-94, **135**: 106, 108-113, **148**: 5
 Illustration **90**: 93 (Figs 12 & 13), **135** cover, **148**: 6 (Fig 5)
S. pamiroalaicum **26**: 4, **28**: 23
S. papillicaulum **42**: 62, **43**: 20
S. parvisepalum **152**: 46
S. parvistamineum **41**: 43
S. parvum **26**: 17, **42**: 62, **42**: 65
S. parvum subsp. *dendroides* **42**: 61, **42**: 63-64
S. parvum subsp. *diminutum* **18**: 34, **42**: 61
 Illustration **18**: 1, **18**: 3
S. parvum subsp. *nanifolium* **42**: 61
S. parvum subsp. *parvum* **42**: 61
S. parvum subsp. *robertsonianum* **42**: 61
S. 'Pearson's Puzzle' **20**: 16-23, **21**: 22, **38**: 7, **79**: 10
 Illustration **20**: 17
S. pedicellatum **15**: 3, **45**: 72, **116**: 50-51, **127**: 7, **127**: 10-12
 Illustration **127**: 10 (Fig 10), **127**: 11 (Fig 12), **127**: 12 (Figs 13 & 14)
 Illustration (Colour variation) **127**: 11 (Fig 11)
S. pedicellatum subsp. *lusitanicum* **44**: 40
S. pedicellatum subsp. *pedicellatum* **44**: 40
S. perezdelarosae **114**: 111-112, **129**: 62-65
 Illustration **114**: 111 (Fig 21), **114**: 112 (Fig 22), **129**: 64 (Fig 23)
S. piactlaense **113**: 90-91
 Illustration **113**: 90-91 (Figs 18-21)
S. pilosum **18**: 12, **21**: 23, **32**: 12, **38**: 11, **71**: 12
S. platyphyllum **4**: 12, **22**: 3, **59**: 22-23
 Illustration **22**: 1, **22**: 4
S. platysepalum
 Illustration **134**: 84,
S. plumbizincicola **108**: 38-40
 Illustration **108**: 40 (Fig 19)
S. plumasanum **40**: 9
S. pluricaule **21**: 23, **22**: 17, **23**: 6-7, **25**: 12-13, **47**: 16-18
 Illustration **47**: 19-20
S. pluricaule subsp. *ezawe* **38**: 18, **47**: 17
S. pluricaule var. *yezoense* **47**: 18
S. polyrhizum **97**: 48-52
 Illustration **97**: 48 (Fig 1), **97**: 49 (Fig 2a - d), **97**: 50 (Fig 3)
S. polystriatum **72**: 31-32, **122**: 103-104
 Illustration **72**: 31 (Fig 5), **122**: 104 (Figs 23 & 24)
S. polytrichoides **39**: 19, **41**: 43, **96**: 36
 Illustration **96**: 37 (Fig 11)
S. polytrichoides 'Chocolate Ball' **96**: 37-38
S. polytrichoides subsp. *polytrichoides* **96**: 38
S. populifolium (see *Hylotelephium populifolium*) **21**: 20, **21**: 23, **24**: 20, **29**: 22, **39**: 22, **45**: 58, **48**: 40

S. porphyranthes **99**: 14-16
 Illustration **99**: 14 (Fig 18), 15 (Figs 19, 20 & 21)
S. potosinum **7**: 4, **22**: 14, **24**: 5, **25**: 3, **26**: 18, **27**: 7, **29**: 13
S. praealtum **17**: 4, **21**: 23, **22**: 13, **22**: 20, **26**: 16, **32**: 21, **34**: 19, **38**: 8-9, **43**: 20, **46**: 97, **53**: 42
S. praealtum subsp. *monticola* **38**: 7
S. praesidis **27**: 9-10, **27**: 16, **27**: 20, **40**: 18, **41**: 48, **52**: 37
S. primuloides (see *Rhodiola primuloides*) **38**: 10-11
S. pruinatum (see *Petrosedum pruinatum*) **15**: 16, **26**: 12, **28**: 11, **28**: 16, **28**: 18, **28**: 21, **28**: 23, **40**: 13, **44**: 40, **45**: 72, **58**: 102-103, **59**: 15-22
S. pseudorupestre **98**: 83
S. pseudospectabile **41**: 43
S. puberulum **28**: 5, **29**: 3
S. pubescens **26**: 22, **35**: 9-10, **36**: 7, **50**: 75, **50**: 78, **50**: 80-81, **50**: 83
 Illustration **26**: 23, **50**: 83, **51**: 33, **107**: 3 (Fig x)
S. pulchellum **8**: 12, **28**: 24, **31**: 20, **36**: 20-21, **38**: 18, **43**: 3, **44**: 48, **55**: 8, **87**: 21-22, **106**: 90-92, **142**: 50, **144**: 16
 Illustration (inflorescence) **28**: 24, **106**: 90 (Fig 10), **142** (cover), **144**: 16 (Fig 12b)
S. pumila **46**: 107
S. purdyi **46**: 97
S. purpureoviride **34**: 24
S. purpureum **22**: 5, **23**: 14
S. purpureum 'Autumn Joy' **23**: 15, **25**: 7
S. purpusii **8**: 13, **26**: 16, **28**: 29
S. pusillum **43**: 17-18, **55**: 8
S. quevae **21**: 22, **38**: 10
S. radiatum **35**: 11, **55**: 8, **56**: 34
 Illustration **55**: 59
S. radiatum subsp. *ciliolum* **55**: 8
S. radiatum subsp. *depauperatum* **55**: 8, **88**: 40
S. reflexum **21**: 3, **22**: 7, **22**: 19, **23**: 5, **23**: 12, **23**: 15, **26**: 12, **28**: 22, **44**: 45, **46**: 99, **50**: 93
 Illustration **104**: 50 (Fig 27)
S. reflexum subsp. *glaucescens* **22**: 10
S. reflexum subsp. *glaucum* **22**: 7
S. reflexum var. *albescens* **3**: 11, **13**: 19, **28**: 22
S. reniforme **85**: 65-67
 Illustration **155**: 119 (Figs 11a, 11b, 11c) (or *S. xerophilum*)
S. reptans **9**: 3-4, **26**: 24, **27**: 3, **27**: 7-8, **38**: 7-8, **43**: 20
 Illustration **9**: 1, **9**: 5, **83**: 19 (Fig 10), **91**: 8 (Fig 5)
S. reptans subsp. *carinatifolium* **9**: 4, **27**: 7-8, **37**: 22, **41**: 28, **42**: 61-63
S. reptans subsp. *reptans* **27**: 7-8, **42**: 61-62
S. reticaule **26**: 4
S. retusum **110**: 88
 Illustration **110**: 88 (Fig 5)
S. rhodanthum (see *Rhodiola rhodantha*) **28**: 24
S. rhodocarpum **25**: 26, **41**: 43, **81**: 60-61
S. rhodocarpum subsp. *edwardii* **10**: 17, **25**: 26
 Illustration **10**: 17
S. rhodopaeum **105**: 61 (see *S. album*)
S. rivasgodayi **44**: 40
S. rivulare **30**: 10, **47**: 5

S. 'Robert Grimm' **99**: 20, **136**: 15
 Illustration **99**: 22 (Figs 23a & 23b), **136**: 15 (Fig 14)
S. robertsonianum **3**: 6, **34**: 24, **38**: 7, **42**: 61-62, **42**: 65
S. robustum **44**: 32
S. 'Rockery Challenger' **91**: 7-8
 Illustration **91**: 8 (Fig 5)
S. rohlenae **44**: 32
S. 'Rolling Rock' **104**: 33-35
 Illustration **104**: 35 (Fig 4 & 5)
S. 'Ron Evans' **12**: 12-14
 Illustration **12**: 12-13
S. rosea (see *Rhodiola rosea*) **17**: 8-11, **21**: 11, **21**: 16, **21**: 19, **22**: 9, **23**: 19, **25**: 5, **28**: 24, **38**: 5, **38**: 11, **42**: 55, **44**: 51
 Illustration **5**: 7, **21**: 12
S. roseum **23**: 13, **23**: 15, **46**: 91
S. rosulato-bulbosum **39**: 19, **142**: 70
S. rotundifolium **26**: 4, **28**: 3, **28**: 6-7, **48**: 46, **131**: 16-20
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S. rubens **22**: 9, **22**: 19-20, **27**: 10-11, **27**: 16, **30**: 4-5, **34**: 23, **36**: 7-8, **38**: 17, **38**: 25-26, **39**: 5, **40**: 17-18, **41**: 36, **41**: 48, **42**: 52-53, **44**: 39, **45**: 72, **46**: 88, **47**: 3-4, **47**: 21, **49**: 67-68, **50**: 76, **50**: 81, **52**: 39, **55**: 15-24, **56**: 43-45, **60**: 30-31, **74**: 82-83, **83**: 6, **85**: 61, **86**: 77-78, **92**: 26, **97**: 63-64, **99**: 10-11, **107**: 16-18, **107**: 21, **111**: 5, **111**: 10, **111**: 17, **112**: 35, **112**: 39, **115**: 4-5, **115**: 13, **118**: 104, **123**: 13-14, **130**: 86, **131**: 12-14 (Figs 15 & 16), **22**-**24** (Figs 24 & 25), **132**: 34, **144**: 23, **147**: 98, **148**: 11, 18, **152**: 8, **154**: 92
 Distribution (Turkey) **108**: 32 (Fig 9), **111**: 18 (Fig 22), (Kefallonia) **132**: 34 (Fig 4),
 Illustration **38**: 1, **38**: centerfold, **41**: 25, **55**: 59, **85**: 63 (Fig 10a), **97**: 63 (Fig 23), **99**: 10 (Fig 12), **108**: 28-30, **111**: 5 (Fig 2), **115**: 5 (Fig 4), **115**: 14 (Fig 19), **118**: 100 (Fig 18), **118**: 104 (Fig 31), **118**: 107 (Fig 35), **123**: 13 (Fig 15), **148**: 10 (fig 11), **149**: 32, 36, **151**: 92 (Fig. 20), **152**: (Fig 5), 154: 93 (Fig 13)
S. rubens subsp. *delicum* **27**: 10, **40**: 18, **41**: 48
S. rubens subsp. *diploheptasoma* **60**: 29
S. rubens subsp. *rubens* **41**: 38
 Illustration **41**: 38
S. rubens var. *cosyrensis* **37**: 19, **41**: 39
S. 'Rubromucronatum' **4**: 4, **153**: 60
 Illustration **153**: 60 (Fig 7)
S. rubrotinctum **17**: 14, **29**: 14, **30**: 3
S. rubrotinctum 'Aurora' **27**: 3
S. rupestre (see *Petrosedum rupestre*) **21**: 20, **22**: 7, **26**: 12, **27**: 2, **28**: 8, **28**: 10-11, **28**: 19, **28**: 21, **28**: 8, **30**: 20, **34**: 6, **35**: 20-21, **39**: 5, **39**: 19, **41**: 38, **42**: 53, **44**: 30, **44**: 33, **44**: 40, **44**: 43, **44**: 45, **45**: 72, **46**: 87, **47**: 15, **48**: 32, **48**: 44, **48**: 46, **50**: 93-94, **58**: 100-101, **59**: 15-22
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S. rupestre subsp. *erectum* (see *Petrosedum rupestre* subsp. *erectum*) **28**: 14-15, **28**: 18, **28**: 20, **48**: 32
 Illustration **28**: 9
S. rupestre subsp. *reflexum* **22**: 10
S. rupestre subsp. *rupestre* (see *Petrosedum rupestre* subsp. *rupestre*) **42**: 53-54
S. rupestre 'Sea Gold' **37**: 19
S. rupicola **55**: 8
S. rupicolum **41**: 43

- S. 'Sandra Mottram' **42**: 60, **42**: 72, **87**: 4
 Illustration **42**: 60
- S. rupifragum* **38**: 18
- S. ruwenzoriense* **141**: 33
 Illustration **141**: 33 (Fig 9)
- S. salazarii*
 Description **109**: 70-73
 Illustration **109**: 70 (Figs 21a, 21b & 22), **109**: 71 (Figs 23, 24 & 25), **109**: 72 (Figs 26 & 27)
 Illustration (inflorescence) **109**: 72 (Figs 28a & b)
- S. samium* **15**: 12, **40**: 18
- S. samium* subsp. *micranthum* **107**: 21-22
 Illustration **107**: 21 (Fig 32), **107**: 22 (Fig 33)
- S. samium* subsp. *samium* **112**: 36-37, **112**: 39
 Distribution map (Turkey) **111**: 18 (Fig 22)
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- S. sanguineum* **41**: 48
- S. 'Santa Barbara'
 Description **103**: 18-19
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- S. sarmentosum* **13**: 22, **21**: 5, **21**: 21-24, **23**: 5, **23**: 16-18, **27**: 8, **28**: 31, **29**: 13, **38**: 9-11, **39**: 19, **40**: 17, **42**: 52-53, **48**: 27-28, **49**: 57-58, **53**: 42, **57**: 61-68, **112**: 32, **126**: 82, 132: 31, **143**: 88, **152**: 46-47
 Illustration **47**: 27, **48**: 36, **126**: cover, 82, **132**: 31
- S. sarmentosum* subsp. *hillebrandtii* **22**: 8
- S. sarmentosum* 'Iijima' **48**: 29, **48**: 36
 Illustration **75**: 13 (Fig 14)
- S. sartorianum* **48**: 28
- S. sasakii* **152**: 47-48
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- S. 'Schorbusser Blut' **45**: 58, **46**: 91
- S. scopulinum* **46**: 107
- S. sedifolium* **78**: 83
- S. sediforme* (see *Petrosedum sediforme*) **21**: 12, **26**: 12, **27**: 10, **27**: 12, **28**: 9, **28**: 11-12, **28**: 19, **28**: 21-23, **30**: 4-7, **30**: 20, **32**: 9, **35**: 13-21, **36**: 7-8, **37**: 19, **37**: 24, **38**: 9-12, **39**: 5, **40**: 14-16, **40**: 18, **41**: 39, **42**: 52-53, **44**: 30, **45**: 72, **46**: 86-87, **46**: 89, **46**: 97, **47**: 15, **47**: 24, **48**: 46, **50**: 75-76, **50**: 78, **50**: 80-85, **50**: 93-94, **57**: 5-60, **58**: 101-102, **59**: 15-22, **60**: 30, **73**: 53, **73**: 55-56, **77**: 56-59
 Illustration **41**: 39, **77**: 56 (Figs 3 & 4)
- x *Sedum montanum* **21**: 12
- S. sediforme* var. *dianum* **44**: 40, **80**: 43-44
- S. sedoides* **39**: 14, **102**: 94-95, **128**: 26
 Illustration **102**: 94 (Fig 4), **128**: 26 (Fig x), **150**: 79 (Figs 48 & 49)
- S. sekiteiense* **4**: 5, **38**: 11, **48**: 35-36, **152**: 48
 Illustration **152**: 49 (Fig 21)
- S. selkianum* (see *Sedum selkianum*) **41**: 28, **43**: 12
 Illustration **43**: 12
- S. selkianum* (see *Sedum selkianum*) **37**: 13, **38**: 11
- S. semenowii* **28**: 24
- S. sempervivoides* **22**: 17, **32**: 12
- S. series* 'Angelica' **49**: 67-69

S. series 'Macronesia' **49**: 69
S. serpentini **5**: 4, **40**: 18, **41**: 48
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S. sexangulare **21**: 11, **21**: 19, **22**: 6-7, **25**: 23, **25**: 27, **26**: 13, **27**: 22-24, **29**: 13, **34**: 6, **35**: 11, **37**: 4-6, **42**: 53, **42**: 59, **42**: 71, **44**: 28, **44**: 33, **44**: 43, **44**: 45, **48**: 31-32, **50**: 85, **58**: 100, **59**: 15-22, **74**: 89, **84**: 30, **87**: 21-22, **95**: 5, **98**: 73, **109**: 64-65, **118**: 85, **128**: 36-40, **132**: 37, **134**: 83, 86, **148**: 19
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 Illustration **109**: 65 (Fig 15), **132**: 37 (Fig 13), **134**: 86 (Fig 3), **136**: 12 (Fig 10), **148**: 19 (Fig 26)
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S. sexangulare fm. *montenegrinum* **130**: 84
S. sexangulare subsp. *boloniense* **22**: 10
S. sexangulare subsp. *hillebrandtii* **22**: 10
S. sexangulare var. *polonicum* **41**: 43
S. sheareri **49**: 58
S. sichotense **38**: 11
S. sieboldii (see *Hylotelephium sieboldii*) **21**: 23, **22**: 17, **23**: 7, **23**: 20, **24**: 20, **25**: 27, **28**: 7, **31**: 21, **38**: 11, **46**: 97
 Illustration (Japanese) **130**: cover
S. sieboldii var. *variegatum* **38**: 11
S. sikokianum **49**: 51
S. 'Silver Moon' **21**: 23, **25**: 7, **38**: 18, **45**: 59
S. sinforosanum **144**: 8-11
 Illustration **144**: 10 (Fig 5)
S. sinuatum **15**: 22, **33**: 17
 Illustration **33**: centerfold, **33**: 17
S. smallii **43**: 18
S. soluntinum **50**: 93
S. sorgerae (see *Sedum confertiflorum*) **15**: 12, **72**: 33-34
 Illustration **72**: 33 (Fig 7)
S. sp. Lau 081 **27**: 6
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S. sp. novae (Comaltepec, Mexico)
 Description **109**: 60-63
 Illustration **109**: 61 (Fig 8), **109**: 62 (Fig 10)
 Illustration (habitat) **109**: 63 (Fig 12)
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S. sp. RBGE 763791 **4**: 4
 Illustration **4**: 1, **4**: 6
S. sp. Sierra Nevada **29**: 15
S. spathulifolium **4**: 15, **21**: 13, **21**: 23, **23**: 6, **24**: 12, **29**: 15, **31**: 20, **38**: 11, **38**: 18, **39**: 19-21, **40**: 9, **41**: 28, **45**: 58, **46**: 97, **50**: 85, **55**: 4-10, **87**: 8-14, **88**: 38, **89**: 57, **90**: 76, **129**: 50-51, **144**: 3
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S. spathulifolium 'Aureum' **127**: 6
 Illustration **127**: 5 (Fig 3)
S. spathulifolium 'Cape Blanco' (see *Sedum* 'Cape Blanco') **23**: 6, **39**: 18, **44**: 38, **127**: 6
 Illustration **127**: 5 (Fig 3)
S. spathulifolium 'Carnea' **23**: 6

- S. spathulifolium* 'Jelly Bean' **127**: 5-6
 Illustration **127**: 5 (Fig 3), **127**: 6 (Fig 4)
- S. spathulifolium* 'William Pascoe' **39**: 17
- S. spathulifolium carneum* **50**: 88
- S. spathulifolium* subsp. *pruinatum* **23**: 6, **55**: 4-10
- S. spathulifolium* subsp. *purdyi* **55**: 8, **87**: 10-11, **89**: 52
 Illustration **87**: 10 (Fig 6)
- S. spathulifolium* subsp. *spathulifolium* **87**: 10-14
 Illustration **87**: 10 (Fig 7), **87**: 11 (Fig 8)
- S. spathulifolium* subsp. *yosemitense* **55**: 8
- S. spectabile* (see *Hylotelephium spectabile*) **21**: 23, **22**: 9, **25**: 8, **28**: 3, **29**: 13, **31**: 18, **32**: 24, **35**: 11
- S. spectabile* 'Iceberg' (see *Hylotelephium spectabile* 'Iceberg') **37**: 21
- S. spectabile* 'Stardust' (see *Hylotelephium spectabile* 'Stardust') **28**: 29, **32**: 24
- S. spinosum* **37**: 7, **38**: 16, **41**: 44, **44**: 48
 Illustration **37**: centrefold
- S. 'Spiral Staircase'* **26**: 17-18, **30**: 18, **38**: 7, **41**: 46-47
 Illustration **26**: 17, **104**: cover
- S. spurium* **21**: 3, **21**: 19, **21**: 23, **22**: 9, **25**: 8, **26**: 8, **31**: 20, **32**: 14, **34**: 6, **35**: 11, **37**: 5, **38**: 11, **39**: 19, **41**: 43, **42**: 52-53, **42**: 57, **42**: 72, **44**: 33, **44**: 43, **45**: 69, **46**: 91, **48**: 28, **48**: 32-33, **50**: 85
- S. spurium* subsp. *ibericum* **41**: 43
- S. spurium* 'Coccineum' **32**: 14
- S. spurium* 'Dragon's Blood' **36**: 3
- S. spurium* 'Schorbusser Blut' **31**: 20
- S. spurium* 'Tricolour' (see *Sedum spurium* 'Tricolor') **42**: 57, **42**: 59, **48**: 28
- S. spurium* 'Tricolor' (see *Sedum spurium* 'Tricolor') **28**: 29, **32**: 14
- S. stahlia* **27**: 3-5, **30**: 3, **31**: 22, **35**: 21, **35**: 22, **38**: 8, **42**: 59, **46**: 93, **46**: 98, **48**: 45
 Illustration **83**: 20 (Fig 12)
- S. stefco* **38**: 10-11, **40**: 18, **52**: 31, **55**: 12-13, **56**: 42, **84**: 28-29, **92**: 26, **132**: 38, **144**: 20
 Illustration **55**: 1, **75**: 5 (Fig 1), **84**: 29 (Fig 1), **132**: 37 (Fig 11), **146**: 59, 60
- S. stellariifolium* **152**: 49-50, **154**: 103
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- S. stellatum* (see *Phedimus stellatus*) **22**: 19-20, **32**: 17-18, **33**: 4-5, **34**: 23, **35**: 11, **37**: 19, **37**: 24, **38**: 9, **38**: 11, **40**: 14-15, **40**: 18, **41**: 38, **41**: 48, **42**: 52-53, **43**: 8, **43**: 11, **44**: 40, **44**: 43, **45**: 72, **47**: 22, **50**: 76, **50**: 78, **50**: 80-81, **50**: 83, **73**: 53
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- S. stelliforme* **38**: 7, **153**: 56-58
 Illustration **127**: 5 (Fig 2), **153**: 56 (Fig 1), **57** (Figs 2-4)
- S. stenopetalum* **4**: 16, **26**: 6, **29**: 13, **30**: 19, **41**: 43, **55**: 9, **55**: 34
- S. stenopetalum* subsp. *monanthum* **55**: 9
- S. stenopetalum* subsp. *radiatum* **41**: 43
- S. steudelii* **15**: 14, **30**: 20, **72**: 29, **80**: 28-29
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- S. 'Stewed Mountain Rhubarb'* **36**: 19, **37**: 21
- S. stoloniferum* **32**: 14, **35**: 11, **38**: 11, **39**: 19, **41**: 43, **44**: 43
- S. suaveolens* **144**: 9 & 11
- S. subcapitatum* **4**: 4
- S. subulatum* (see *Petrosedum subulatum*) **72**: 29-30, **72**: 35, **122**: 99-103, **144**: 4-6, 20, **146**: 60
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- S. surculosum* **35**: 9-10, **38**: 12-13, **149**: 40-42
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- S. surculosum* var. *fuscum* **38**: 15
- S. surculosum* var. *luteum* **38**: 15-16, **59**: 4-5
 Illustration **59**: 4, **59**: 92-93
- S. surculosum* var. *surculosum* **38**: 15
- S. 'Tekaria Dake'* **34**: 12
- S. 'Takari Dake'* **34**: 12 (see *S. 'Tekaria Dake'* **34**: 129)
- S. takasui* **31**: 15, **47**: 16-18, **47**: 20, **50**: 95-96
- S. takesimense* (see *Phedimus takesimense*) **19**: 4-7, **37**: 19, **38**: 11, **39**: 19, **46**: 97, **131**: 19,
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- S. takesimense* 'Atlantis': **133**: 54
- S. tamaulipense* **42**: 62
- S. taquetti* **25**: 6, **131**: 19
- S. tarokoense* **152**: 51
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- S. tatarinowii* (see *Hylotelephium tatarinowii*) **21**: 23, **24**: 19-20, **28**: 6, **29**: 22, **45**: 58, **45**: 66
x Sedum populifolium **24**: 20, **29**: 22
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- S. tatarinowii* 'Sunset Cloud' (see *Hylotelephium tatarinowii* 'Sunset Cloud') **24**: 19, **25**: 28
- S. tetractinum* **21**: 21-22
- S. telephioides* (see *Hylotelephium telephioides*) **29**: 13, **37**: 21, **41**: 27, **42**: 69
- S. telephium* (see *Hylotelephium telephium*) **21**: 11, **22**: 6, **22**: 10, **23**: 13-14, **23**: 19, **24**: 6, **24**: 13, **24**: 19, **25**: 6, **26**: 4, **28**: 7, **29**: 13, **41**: 27, **41**: 48, **43**: 24, **44**: 33, **44**: 43-44, **45**: 66, **46**: 101, **46**: 104-105, **50**: 95
- S. telephium* subsp. *fabaria* (see *Hylotelephium telephium* subsp. *fabaria* and *Sedum fabaria*) **22**: 6, **38**: 11, **39**: 19, **45**: 66
- S. telephium* subsp. *fabaria* var. *caucasicum* (see *Hylotelephium telephium* subsp. *maximum* var. *caucasicum*) **46**: 104
- S. telephium* subsp. *maximum* (see *Hylotelephium telephium* subsp. *maximum*) **25**: 6, **36**: 6, **37**: 4, **38**: 11, **38**: 19, **39**: 5, **40**: 18, **42**: 53, **46**: 101-105, **47**: 24, **48**: 34, **48**: 36,
- S. telephium* subsp. *maximum* var. *atropupureum* (see *Hylotelephium telephium* subsp. *maximum* var. *atropupureum*) **31**: 18, **40**: 17, **46**: 90
- S. telephium* subsp. *purpurascens* **22**: 10
- S. telephium* subsp. *ruprechtii* (see *Hylotelephium telephium* subsp. *ruprechtii*) **37**: 21, **46**: 97, **48**: 38
- S. telephium* subsp. *telephium* **31**: 18
- S. telephium* var. *borderi* **24**: 13
- S. telephium* 'Arthur Branch' (see *Hylotelephium* 'Arthur Branch') **37**: 21
- S. telephium* 'Autumn Joy' **38**: 11
- S. telephium* 'Indian Chief' (see *Hylotelephium* 'Indian Chief' and syn. *Hylotelephium* 'Herbstfreude') **13**: 22
- S. tenellum* **33**: 5, **33**: 15, **37**: 21, **44**: 30, **79**: 15-17
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- S. tenuifolium* **26**: 12, **27**: 10, **27**: 15, **28**: 17, **47**: 15, **50**: 94
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- S. ternatum* **9**: 6, **10**: 13, **21**: 19, **31**: 20, **41**: 27, **42**: 69, **55**: 4-10
- S. tetractinum* **20**: 4-5, **32**: 8, **32**: 11, **37**: 15, **39**: 8, **40**: 18, **46**: 97, **50**: 86, **99**: 7
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S. thartii **98**: 83
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S. tortuosum **20**: 18-23, **22**: 12, **22**: 14, **22**: 16
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S. triangulosepalum **4**: 4
S. trichromum **12**: 3-4
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S. tristriatum **27**: 9-12, **27**: 12, **27**: 17, **27**: 20-21, **53**: 29-31, **81**: 64,
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S. trollii (see *Rhodiola saxifragoides*) **19**: 10-13, **38**: 11
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S. trullipetalum **77**: 63
S. truncatistigmum **4**: 4
S. tschernokolevii **84**: 30, **128**: 36-40
 Illustration **128**: 37 (Fig 14), **128**: 38 (Fig 15), **128**: 39 (Fig 16), **128**: 40 (Fig 18)
S. tsangpotibetanum (see *Rhodiola tsangpotibetana*)
S. tsugaruense **13**: 8-9, **131**: 18
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S. tuberiferum **40**: 18, **41**: 43, **52**: 31, **55**: 15-24, **56**: 43-45, **83**: 4-6, **84**: 31, **87**: 19, **91**: 11, **92**: 25-26, **104**: 40-41, **152**: 13
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S. tuberosum **32**: 8, **32**: 11, **36**: 7-10, **50**: 79-80, **50**: 83, **51**: 5-8, **110**: 100-101
 Illustration **50**: 83c, **51**: 1, **51**: 5, **55**: 29, **75**: 14 (Fig 16), **110**: 100 (Fig 18)
S. tymphaeum **32**: 8, **32**: 11, **33**: 16, **37**: 15, **40**: 18
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S. uniflorum **4**: 4
S. uniflorum ssp *oryzifolium* **57**: 61-68
S. uniflorum ssp *oryzifolium* var. *pumilum* **77**: 52
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 Illustration **60**: 34
S. urceolatum **26**: 12
S. ursi **15**: 13, **35**: 6, **35**: 8, **44**: 29, **59**: 7, **108**: 29, **110**: 99-101
 Illustration **15**: 13, **59**: 89-91, **100**: 52 (Figs 18a - b), **108**: cover, **110**: 100 (Fig 19)
S. urvillei **15**: 22, **22**: 8, **25**: 24, **38**: 11, **40**: 18, **44**: 28-31, **50**: 86, **56**: 15-24, **56**: 42, **83**: 6, **85**: 61, **86**: 77-78, **91**: 11, **92**: 25-26, **100**: 49-50, **105**: 61, **107**: 16, **108**: 30-33, **111**: 20, **116**: 37-39, **129**: 57-58, **144**: 21, **146**: 60, **148**: 8, 11 -13, **149**: 32, 34, 35, 36, **150**: 52, **152**: 8-12

Distribution map (Turkey) **100**: 53, **108**: 32 (Fig 10), **111**: 18 (Fig 22), **116**: 39 (Fig 6)
 Illustration **55**: 60, **85**: 63 (Fig 10d), **100**: 49 (Fig 14), **107**: 17 (Fig 20), **108**: 37 (Figs 17a & b), **129**: 58 (Fig 15), **144**: 22 (Fig 17), **148**: 10 (Fig 11), 13 (Fig 17), **149**: 33 (Fig 7), **152**: 8 (Figs 8 – 8), 10 (Figs 10 – 12 [or *S. apoleipon*]), 11 (Figs 14, 14),
S. urvillei subsp. *hillebrandtii* **22**: 10
S. ussuriense **25**: 6, *ussuriense* 'Chuwangsan' **131**: 15-21
S. ussuriense var. *ochrantherum* **131**: 18
S. valerianoides **26**: 3
S. variicolor **127**: 23
S. 'Vera Higgins' **8**: 8
S. 'Vera Jameson' (see *Hylotelephium 'Vera Jameson'*) **21**: 23, **25**: 7
S. verlotii (see *Petrosedum ochroleucum*) **50**: 85
S. vermiculifolium **15**: 9
 Illustration **15**: 9
S. versadense
 Illustration **103**: cover
S. versadense var. *versadense* **103**: 5-6, **136**: 13-16 (incl. *chotalense*)
 Illustration **103**: 5 (Fig 2), **103**: 6 (Fig 4), **136**: 14 (Fig 12)
S. versadense var. *villadioides* **103**: 4-6, **136**: 13-16
 Illustration **103**: 4 (Figs 1a-c), **103**: 5 (Fig 3)
S. versicolor **35**: 9-10
S. verticillatum **4**: 9, **25**: 7
S. villosum **9**: 19, **21**: 6-9, **25**: 4, **30**: 10, **32**: 13, **37**: 5, **39**: 5, **39**: 19-21, **43**: 12-17, **44**: 40, **44**: 45, **45**: 72, **46**: 88, **47**: 15, **49**: 66, **50**: 81, **51**: 9, **52**: 46, **55**: 9, **97**: 59, **112**: 32, 134: 83, **140**: 21-23, **146**: 73
 Illustration **22**: 9, **39**: centerfold, **43**: 12c, **140**: 21-23 (Figs 36-39), **146**: 72 (Fig 22)
 Illustration (postcard) **107**: 23
S. villosum subsp. *aristatum* (see *S. maireanum*) **21**: 6, **44**: 40, **129**: 52
S. villosum subsp. *campanulatum* **21**: 6-7, **44**: 40
S. viride **13**: 3-4
 Illustration **13**: 1, **13**: 4
S. viridescens **25**: 6, **38**: 11
S. viviparum **4**: 8
S. vulgare **22**: 10
S. vuralianum **26**: 9, **29**: 19-21, **30**: 20, **31**: 23, **33**: 5, **33**: 16, **37**: 21
 Illustration **29**: 20
S. wallichianum (see *Rhodiola wallichiana*) **11**: 22
S. weinbergii **34**: 13
S. wettsteinii **44**: 32
S. 'Whetstone' **49**: 66
 Illustration **31**: 12c, **31**: 13
S. 'White Diamond Stonecrop' (see *Rhodiola pachyclados*)
S. wilczekianum **32**: 8-13
 Description **97**: 52-53
 Illustration **97**: 53 (Fig 6)
S. willisii **29**: 14
S. willkommianum **44**: 40
 Illustration (inflorescence) **97**: 52 (Fig 5)
 Illustration (inflorescence) **97**: 52 (Fig 5)
S. woodii **29**: 14
S. wootonii **29**: 3

- S. 'Wray's Rogue'* **104**: 32-33
 Illustration **104**: 32 (Fig 1)
 Illustration (inflorescence) **104**: 33 (Fig 3)
 Illustration (leaves) **104**: 33 (Fig 2)
- S. wrightii* **25**: 26, **38**: 7-8, **41**: 43, **42**: 64, **43**: 20, **55**: 9, **98**: 77-79, **123**: 21-22, **143**: 88
 Illustration **98**: 78 (Fig 11), **98**: 79 (Figs 12 & 13)
- S. wrightii* subsp. *densiflorum* **14**: 20-21, **55**: 9
 Illustration **20**: 21
- S. wrightii* subsp. *priscum* **55**: 9
- S. x battandieri* **100**: 55
 Illustration **100**: 55 (Figs 22 & 23)
- S. x brevieri* **39**: 6
- S. x füreri* **136**: 11-13
 Illustration **136**: 13 (Fig 11)
- S. x luteolum* **38**: 10
- S. x luteoviride* **42**: 59, **46**: 96, **132**: 31,
 Illustration **91**: 8 (Fig 5), **132**: 31,
- S. x praegeri* **131**: 22-23 (Figs 24 & 25)
- S. x rubroinctum* **32**: 21, **38**: 7-8, **38**: 11, **109**: 76-77, **142**: 61
- S. x rubroinctum* 'Aurora' **109**: 76
 Illustration (chimera) **109**: 76 (Figs 32a & b)
- S. yabeanum* **39**: 19 (see *Sedum polytrichoides*)
- S. yezoense* **47**: 18
- S. yosemitense* **29**: 14
- S. yunnanense* (see *Sinocrassula yunnanense*) **26**: 3, **28**: 23
 Illustration **26**: 1, **26**: 5
- S. zentaro-tashiroi* **38**: 10, **137**: 31
- S. zlatiborensis* (see *S. annuum*) **44**: 32, **129**: 58
 Illustration **129**: 59 (Fig 18)

Sempervivum

- 134**: 96- 104,
- S. arachnoideum* **57**: 58, **58**: 100, **59**: 15-22, **79**: 13-14, **110**: 93-94, **122**: 84-85, **133**: 54, 56
 Illustration **79**: 14 (Figs 10 & 11), **101**: 67 (Fig 7), **110**: 93 (Fig 11), **122**: 85 (Fig 6), **133**: 56 (Figs 2a, b), 57 (Figs 3 & 4)
- S. armenum* **79**: 16-17, **91**: 9
 Illustration **79**: (Figs 17 & 18), **91**: 9 (Fig 6)
- S. calcareum* **101**: 69, **138**: 73-74
 Illustration **138**: 73 (Fig 18), 74 (Figs 19 & 20)
- S. ciliosum* **83**: 5, **92**: 24-25
 Illustration **83**: cover, **83**: 5 (Fig 2)
- S. ciliosum* var. *galicicum*
 Illustration **92**: 24 (Fig 2)
- S. davisii* **71**: 9, **79**: 4
 Illustration **79**: 6 (Fig 3)
- S. dolomiticum* **87**: 16
- S. furseorum* **79**: 4-5
 Illustration **79**: 5 (Fig 1)

- S. gillianii* **115**: 19-21
 Illustration **115**: 20 (Figs 27a - c), **115**: 21 (Figs 28a & b)
- S. glabrifolium* **71**: 9
- S. globeriferum* subsp. *lagarinianum* (see *Jovibarba globerifera* subsp. *lagariniana*)
- S. 'Green Ice'* **134**: 96, 100
- S. heuffelii* (see *Jovibarba heuffelii*)
- S. kindingeri* **52**: 31
- S. klepa* **92**: 26
- S. leucanthum* **85**: 60, **145**: 34
 Illustration **85**: 68 (Fig 12d)
- S. marmoreum*
 Illustration **148**: cover
- S. marmoreum* subsp. *erythraeum* **83**: 5-6, **85**: 60-64, **119**: 12-13, **129**: 58, **144**: 21
 Illustration **83**: 5 (Figs 4 & 5), **83**: 6 (Fig 6), **85**: 64 (Fig 11), **119**: 13 (Figs 9 & 10)
 Illustration (variable) **129**: 60 (Figs 20a-c)
- S. minus* **59**: 10
- S. monanthes* **85**: 53-55
 Illustration **85**: 53 (Fig 2)
- S. montanum* **58**: 100, **59**: 15-22, **122**: 87, **133**: 54, 56
 Illustration **85**: 68 (Fig 12a), **122**: 87 (Fig 9), **122**: 89 (Fig 11), **133**: Front cover,
- S. montanum* var. *montanum* **74**: 93-95
- S. montanum* var. *burnatii* **74**: 94-95
- S. ruthenicum* **85**: 61
- S. spec. near Elesnica, Bulgaria* **145**: 33-34
 Illustration **145**: 33 (Figs 9 & 10), 34 (fig 11)
- S. staintonii* **71**: 10
- S. tectorum* **58**: 100, **59**: 15-22, **95**: 5, **101**: 67-69, **109**: 65, **121**: 76, **122**: 86-87, **133**: 54, 56
 Illustration **95**: 5 (Fig 2), **122**: 87 (Fig 8), **133**: 56 (Figs 1a,b),
- S. tectorum* var. *arvernense* **97**: 62-63, **102**: 100-101
 Illustration **97**: 63 (Figs 20 & 21), **102**: 101 (Fig 12)
- S. 'Whetstone'* **31**: 11
- S. zeleborii* **85**: 61, **145**: 33
- S. x funckii* **146**: 57-59
 Illustration **146**: 57 (Fig 2), 58 (Fig 3), 59 (Fig 4)

Senecio

- S. kleinia* **109**: 57-58

Sinocrassula

- S. densirosulata* **127**: 14-20
 Illustration (inflorescence) **127**: 20 (Fig 19)
 Illustration (leaf markings) **127**: 19 (Fig 18)
- S. indica*
 Illustration **125**: 69 (Fig 31), **148**: 4 (Fig 2)
- S. paoshingensis* var. *spinulosa* **113**: 79-84
 Illustration **113**: 79-84 (Figs 36-46)
- S. yunnanensis* (see *Sedum yunnanense*) **49**: 56, **94**: 72-73

Illustration **94**: cover,
Illustration (inflorescence) **94**: 72 (Fig 1)
New combinations in *Sinocrassula* **133**: 77 -79

Stylophyllum

150: 68
Illustration **150**: 68 (Fig 36)

Tacitus

T. bellus **104**: 45, **112**: 52-53, **139**: 94, 96
Illustration (Postage stamp) **112**: 52-53 (Figs 35 & 36)

Telmissa

T. microcarpa (see *Sedum microcarpum*)

Tetrorum

150: 68
Illustration **150**: 68 (Fig 37)

Thompsonella

T. minutiflora **73**: 67-68

Tillaea

150: 69
T. helmsii **77**: 55
Illustration **39**: 20
T. muscosa (see *Crassula tillaea*) **42**: 53, **50**: 82, **80**: 44-54, **115**: 6
Illustration **50**: 82, **80**: 45 (Fig 15), **80**: 51 (Fig 18), **80**: 52 (Fig 20), **115**: 6 (Fig 7),
118: 88 (Figs 4 & 5)
T. recurva **49**: 60
Illustration **49**: 60c

Tilleastrum

150: 69

Tylecodon

- T. aridimontanus* **118**: 98
Illustration **118**: 98 (Fig 17)
- T. atropurpureus*
Illustration **89**: 66 (Fig 14)
- T. bayeri* **122**: 105-106
Illustration **122**: 105 (Figs 25-27), **122**: 106 (Fig 28)
- T. bleckiae* **108**: 27
Illustration **107**: 10 (Fig 9)
- T. bodleyae* **89**: 65
Illustration **89**: 66 (Fig 15)
- T. buchholzianus* var. *fasciculatus* **89**: 65
Illustration **89**: 67 (Fig 16)
- T. cacalioides* **89**: 65
- T. cordiformis* **127**: 21-23
Illustration **127**: 21 (Fig 20), **127**: 22 (Figs 21 & 22)
- T. decipiens* **124**: 28-29
Illustration **124**: 28 (Figs 7 & 8)
- T. grandiflorus* **89**: 61
- T. hallii* **89**: 61
Illustration **89**: 64 (Fig 11), **135**: 131 (Fig 28)
- T. longipes* **128**: 35-36
Illustration **128**: 35 (Fig 12), **128**: 36 (Fig 13)
- T. nigricaulis* **89**: 65
- T. nolteei* **89**: 65
- T. occultans* **89**: 65
- T. paniculatus* **89**: 61, **120**: 29-31
Illustration **89**: 62 (Fig 9), **120**: 31 (Fig 9)
- T. peculiaris* **89**: 65
- T. pygmaeus* **89**: 65
- T. racemosus*
Illustration **89**: 67 (Figs 17a & b)
- T. reticulatus* **89**: 65
Illustration **89**: 65 (Fig 13)
- T. rubrovenosus* **89**: 63
Illustration **89**: 63 (Fig 10)
- T. schaeferianus* **89**: 61, **108**: 27, **118**: 96-98, **119**: 18-19
Illustration **118**: 96-97 (Figs 14a, b, 15 & 16), **119**: 18-19 (Figs 17-19)
- T. singularis* **89**: 65, **114**: 109-111
Illustration (leaf) **114**: 110 (Fig 20)
- T. sulphureus* **142**: 53-54
Illustration **142**: 53-54 (Figs 2 & 3)
- T. sulphureus* var. *arminanus* **89**: 65
- T. ventricosus* **89**: 65
Illustration **89**: 65 (Fig 12)
- T. wallichii* subsp. *ecklonianus* **120**: 29
Illustration **120**: 29 (Fig 6)

Umbilicus

U. sp. **45**: 72, **46**: 89, **47**: 3, **50**: 82
U. albido-opacus **111**: 21-23
 Illustration **111**: 21 (Fig 27), **111**: 22 (Fig 28)
 Illustration (Habitat) **111**: 23 (Fig 29 & 30)
U. erectus **52**: 39, **59**: 15-22, **78**: 90
U. gaditanus **44**: 41-42, **46**: 89, **46**: 94
U. giganteus **44**: 42
U. heylandianus **44**: 41-42, **94**: 94
 Illustration **94**: 92 (Fig 21), **94**: 93 (Figs 22 & 23)
U. horizontalis **42**: 52-53, **44**: 41-42, **46**: 89, **52**: 52, **56**: 46, **73**: 54, **73**: 56, **98**: 87, **99**: 11, **123**: 14-15, **132**: 36, **154**: 95-96
 Distribution map (Turkey) **111**: 18 (Fig 22)
 Illustration **99**: 11 (Fig 13), (Morocco) **123**: 14 (Fig 19), (Kefalonia) **132**: 37 (Fig 10a), **148**: 17 (Fig 24)
U. horizontalis subsp. *intermedius* **44**: 42
U. luteus **52**: 40
U. oppositifolius 'Jim's Pride' **109**: 77, **139**: 78
 Illustration **109**: 77 (Fig 34), **139**: 78 (Fig. a)
U. parviflorus **52**: 40, **107**: 16-18
 Illustration **107**: 17 (Fig 21)
U. pendulinus **18**: 14
U. rupestris **42**: 52-53, **44**: 41-42, **46**: 89, **47**: 15, **78**: 90-92, **94**: 93-94, **97**: 62, **99**: 10, **111**: 5, **127**: 8, **132**: 41, **144**: 7, 23, **145**: 37, **146**: 68, **152**: 2
 Illustration **78**: 91 (Fig 9), **78**: 92 (Fig 10), (Postage Stamp) **92**: 36 (Fig 17)
 97: 62 (Fig 19), **132**: 37 (Fig 10b), **144**: 7 (Fig 3), **155**: 125 (Fig 18)

Urbinia

150: 69
 Illustration **150**: 69 (Fig 38)

Villadia

150: 69
V. sp. **42**: 61, **42**: 63, **42**: 66-67, **46**: 107
 Illustration **76**: 38 (Fig 11)
V. batesii **41**: 46-47, **46**: 107
V. cucullata
 Illustration **75**: 22 (Fig 26)
V. cucullata subsp. *apiculata* **125**: 52-53
 Illustration **125**: 52 (Figs 1&2), **125**: 53 (Figs 3-5)
V. elongata **46**: 107
V. guatemalensis
 Illustration **149**: 44 (Fig 26),
V. imbricata
 Illustration **73**: 70 (Fig 7), **149**: 45 (Fig 27)
V. longuetae **143**: 88
V. parviflora **73**: 67-68

V. porphyrantha **143**: 89
V. ramosissima **42**: 60, **42**: 67
 Illustration **42**: 49, **42**, 51, **42**, 60
V. recurva **143**: 88
V. squamulosa **73**: 64, **93**: 59
 Illustration **93**: 59 (Fig 9), 60-61 (Figs 12 & 13)
V. virgata **83**: 21-23 (Description)
 Illustration **83**: 22 (Figs 13a-c), **155**: 118 (Fig 9), 119 (Figs 10a & 10b)

x *Cremneria*

C. 'Sempervivoides' **89**: 60
x C. 'Pruinosa' **108**: 40-42
 Illustration **108**: 41 (Fig 19b & 20a)

x *Aeonichryson*

126: 96, 134: 96
x *A. aizoides* **126**: 96

x *Aeoniogreenovia* 126: 96

x *Bryokalanchoe* 126: 96

x *Cremnadia* 126: 96

x *Cremnopetalum*

126: 96
x C. 'Fred Wass' **78**: 95-97
 Illustration **78**: 95 (Figs 11 and 12), **78**: 96 (Figs 13 & 14)

x *Cremnophytum* 144: 7

x *Cremnosedum*

126: 96
x C. 'Crocodile' **87**: 4, **87**: 6
x C. 'First Foundling'
 Description **87**: 4-6
 Illustration **87**: 4 (Fig 1), **87**: 5 (Figs 1b & 1c)
x C. 'Little Gem' **87**: 6

- Illustration **101**: 75 (Fig 19)
- x C. 'Pearson Surprise'
 - Description **86**: 82-83
 - Illustration **86**: 82 (Fig 6a & 6b)

x ***Cremnovelum***

- x C. 'Corso' **154**: 84-85
- Illustration **154**: 84 (Fig 1), 85 (Figs 2a,b,c)

x ***Cremsonella*** 126: 96

x ***Dudleveria***

- 126**: 96
- x *D. spiralis* **126**: 96

x ***Dudledon*** 126: 96

x ***Echenesia*** 126: 96

x ***Echepetalum*** 126: 96

x ***Echephytum*** 126:96

x ***Echesula*** 126: 97

x ***Grapsonella*** 126: 97

x ***Graptoladia*** 126: 97

x ***Graptophyria*** 123: 17, 126: 97

x ***Graptosedum***

- x G. **126**: 97
- x G. sp. Description **91**:5
 - Illustration **91**: 4 (Fig 1, 2 & insert)
- x G. 'Blue Giant' **90**: 94-95
 - Illustration **90**: 94 (Fig 14), **90**: 95 (Fig 15)
- x G. 'California Sunset'
 - Description **58**: 92, **58**: 98-99
 - Illustration **58**: 84-85
- x G. 'Daruma Shu-rei' **148**: 20-22
 - Illustration **148**: 20 (Fig 27), 21 (Figs 28 & 29), 22 (Figs 30 & 31)
- x G. 'Francesco Baldi' **19**: 18-19, **134**: 83, **144**: 3
 - Illustration **19**: 19, **32**: 21, **75**: 9 (Fig 7), **106**: 83, **111**: cover, 2 (Fig 8), **144**: 2 (Fig a)
- x G. 'Gerhard Koehres' **144**: 8-11
 - Illustration **144**: 8 (Fig 4), 10 (Fig 6 wrongly captioned as *S. sinforosanum*)

- x G. 'Ghosty' **88**: 46
- x G. 'Mediterranean Mystery'
Description **86**: 85-87
Illustration **86**: 86 (Fig 11a, b, c & d)

x *Graptovedum* 123:17, 126: 97

x *Graptoveria*

126: 97

- x G. 'A Grim One' **83**: 23,
Description **87**: 6-7, **87**: 7 (Fig 3)
Illustration **87**: 6 (Fig 2)
Illustration (inflorescence) **87**: 7 (Fig 2)
- x G. 'Acaulis' **89**: 58-61
Illustration **60**: 103
- x G. 'Caerulescens' **89**: 60
- x G. 'Calva' **89**: 60-61
- x G. 'Debby' **88**: 46
Description **59**: 14
Illustration **59**: 94-95
- x G. 'Fanfare' **71**: 14-17
Illustration **71**: 14 (Fig10) see x *Sedeveria* 'Fanfare'
- x G. 'Gloria' **122**: 106-107
Illustration **122**: 106 (Fig 29)
Illustration (inflorescence) **122**: 107 (Fig 30)
- x G. 'Haworthioides' **89**: 59
- x G. 'Kew Marble' **42**: 60, **43**: 3
Illustration **42**: **60**
- x G. 'Longicaulis' **89**: 59
- x G. 'Opalina'
Illustration **44**: 37-38
- x G. 'Pik-Ruz' **59**: 20, **60**: 102, **60**: 104
Description **60**: 45-46

x *Greenonium* 134: 96

x *Hasseleya* 126: 97

x *Hylostachys* 121: 62, 126: 97

- x H. 'Blue Elf' (see *Hylotelephium* 'Blue Elf') **124**: 32-34

x *Jovivum* 126: 97

x *Kalorochea* 126: 98

x *Lenaptopetalum* 126: 98

x *Lenaptophyllum* 126: 98

x *Lengraptophyllum* 126: 98

x *Lenophytum* 126:98

x *Lenoveria*

126: 98

x *L. 'Ajax'*

Description 90: 89-92

Illustration 90: 90 (Figs 11a-c)

x *Moranara* 123:17, 126: 98

x *Pachyvedum* 126: 98

x *Pachyladia* 126: 98

x *Pachyrantia* 126: 98

x *Pachysedum* 126: 98

x *Pachyveria*

126: 98

x *Pachyveria* 'Albomucronata' 89: 58

x *Pachyveria* 'Calypso' 88: 44-46

Illustration 88: 45 (Figs 17a & b)

x *Pachyveria* 'Clavifolia' 83: 8-9, 86: 87-90, 89: 59

Description 86: 88-90

Illustration 83: 10 (Fig 8b), 86: 89 (Fig 13), 86: 89 (Fig12a & 12b)

x *Pachyveria* 'Debbie Reinelt' 88: 46

x *Pachyveria* 'Elaine' 88: 46

Illustration 91: 18 (Fig 11)

x *Pachyveria* 'Elaine Reinelt' 88: 46

x *Pachyveria* 'Debbie Reinholdt' 88: 46

x *Pachyveria* 'Glaucia' 84: 43-44, 89: 59

Description 84: 43-44

Illustration 84: 43 (Fig 12), 84: 44 (Fig 13)

x *Pachyveria* 'Glossoides' 89: 59

Description 83: 7-10

Illustration 83: 10 (Fig 8a)

- x *Pachyveria* 'Muelleri'
Description **86**: 83-85
Illustration **86**: (Fig 10a, b & c)
- x *Pachyveria* 'Paradoxa' **89**: 59

x *Purgobulea* **126**: 98

x *Rocheassula* **126**: 98

x *Sedadia* **126**: 98

x *Sedeveria*

- 46**: 96, **126**: 99
- x *Sedeveria* 'Blue Giant' **99**: 18
- x *Sedeveria* 'Blue Lotus' **144**: 9-10
- x *Sedeveria* 'Colossal' **99**: 18
- x *Sedeveria* 'Darley Dale' **99**: 18
Description **87**: 26-27
Illustration **87**: 27 (Figs 19-21)
- x *Sedeveria* 'Doinet' **99**: 18
- x *Sedeveria* 'El Aquinet' **99**: 18
- x *Sedeveria* 'Fanfare' **92**: 23, **92**: 27, **99**: 18
Illustration **92**: 27 (Fig 5), **99**: 22 (Fig 24)
- x *Sedeveria* 'Green Rose' **99**: 18
- x *Sedeveria* 'Harry Butterfield' **99**: 19
Illustration **99**: 23 (Fig 26)
- x *Sedeveria* 'Jet Beads' **49**: 60, **99**: 19, **105**: 72-73
Illustration **105**: 72 (Fig 15)
Illustration (inflorescence) **105**: 73 (Fig 16)
- x *Sedeveria* 'Letizia' **76**: 28-29, **99**: 19
Illustration **76**: 28 (Fig 1), **76**: 29 (Fig 2 & 3)
- x *Sedeveria* 'Liège Commixion' **33**: 23, **99**: 19
Illustration : **33** (centrefold)
- x *Sedeveria* 'Maialen' **99**: 19
Illustration **99**: 22 (Figs 22a-c)
- x *Sedeveria* 'Morganden' **99**: 19
- x *Sedeveria* 'Pink Beauty' **99**: 20
- x *Sedeveria* 'Pudgy' **99**: 20
Illustration **99**: 21 (Figs 21 & insert)
- x *Sedeveria* 'Robert Grimm' see S. 'Robert Grimm'
- x *Sedeveria* 'Sehare' **144**: 11
- x *Sedeveria* 'Soft Rime' **99**: 20
Illustration **99**: 23 (Fig 26)
- x *Sedeveria* 'Southern Belle' **99**: 20
- x *Sedeveria* 'Spring Jade' **99**: 20
- x *Sedeveria* 'Whitestonecrop' **29**: 3, **99**: 20
Illustration **30**: 1, **70**: 87 (fig 6), **99**: 23 (Fig 25)
- x *Sedeveria* 'Wirral' **99**: 21

x *Sedeveria* 'Yellow Humbert' **99**: 21

x *Sedoro* **126**: 99

x *Sedurbinia* **126**: 99

x *Semponium*

143: 96-104

x *Semponium* 'Sienna' **134**: 96-104, **135** (Fig 21)

x *Semponium* 'Destiny' **134**: 100, **135** (Fig 20), 155: 121-122

Illustration **155**: 121 (Figs 13 & 14), 122 (Fig 15)

x *Semponium* 'Diamond' **134**: 100

x *Semponium* 'Little Devil' **134**: 100

x *Semponium* 'Ice Warrior' **135**: 124 (Fig 23)

x *Setophytum* **144**: 7

x *Tacipetalum*

126: 99, **139**: 96 ('Superstar')

x *Taciphytum* **126**: 99

x *Tacisedum*

(correction **123**: 3), **126**: 99

Illustration **122**: 107 (Fig 31)

x *T.* 'Heswall' **144**: 11

x *Taciveria*

126: 99, **139**: 94-97

x *Taciveria* 'Ruth Bancroft' **104**: 44-45

Illustration **104**: 44 (Fig 19), **104**: 45 (Fig 20)

T. bellus x *E. agavoides* 'Ebony'

Illustration **139**: 96 (Fig 28)

x *Thompsophytum* 126: 99

x *Thompsosedum* 126: 99

x *Thompsoveria* 126: 99

x *Urbiphytum* 126: 99

x *Urbiphytum albomuconatum* (see x *Pachyveria* 'Albomucronata')

x *Villeveria* 126: 99

