Index of Proceedings
1960-1975
CONTENTS OF THE INDEX

Preface ........................................... III
Section I. Subject Index ............................. 1
Section II. Index to References not Included in Section I. 37
Section III. Author Index ............................ 50
Previous indexes to the Proceedings were published in 1939 and 1961 (Vol. 50, No. 2). These covered the years 1908-1937 and 1938-1959, respectively. This third index covers the years 1960 through 1975, the last year the journal was published under the name of "Proceedings." Beginning in 1976, the publication became the "Journal of Seed Technology."

The format of the index is identical to that of the 1961 index. For each reference, volume numbers appear in parentheses, followed by the first page number of the article.

Section I, Subject Index, follows the traditional form of indexing with extensive cross-indexing. Most articles are indexed by subject, species or crops, and author. Association meetings and committee reports are also included.

Section II is an Index to References not included in Section I. When three or less species are discussed under the same subject in an article, all are entered in the Subject Index under the appropriate headings. When four or more species appear in the same article, they are entered in the Subject Index under a general heading such as "weed seeds" and each species is then listed individually in Section II with specific references under the appropriate column headings. References in Section I are not duplicated in Section II. It is thus necessary to look in both Section I and Section II when looking up citations for a particular species in regard to germination, purity, or identification.

Section III, Author Index, follows the usual form of listing citations after each author's name.

A more detailed explanation of the index format is contained in the preface to the 1961 Index.

A.G. Huber and D.F. Grabe
Oregon State University
SECTION I. — SUBJECT INDEX

Abnormal seedlings
beans (50)83
crowntvetch (62)101
nasturtium (51)78
spruce, Canadian white (64)72
sweetclover (53)112
activated carbon (60)213
tree seeds (57)96

Accelerated aging
oak, cherrybark (64)110
peanuts (61)78
pea seed (63)51
rice seed (63)155
soybeans (60)152, 158;
(61)41, 112; (65)112

Adenosine triphosphate
lettuce seeds (62)116
aged seeds (52)121

Addresses
Commercial Seed Technologists
(50)48, 51; (51)62

Aged seed
adenosine triphosphate level
(62)121
cantaloupe (63)83
lettuce seeds (62)121
ryegrass (56)161
storage
crambe seeds (63)148
safflower seeds (64)126
tetrazolium tests (56)71
aleurone color
barley (65)66

Alfalfa seed
germination (50)101; (57)60
speed of germination (53)144
velvet roll separator (65)75
vigor (57)60

Alternaria tenuis
sorghum seeds (59)82

Alpine species
germination requirements (53)91

Alternating temperatures
dormancy, ryegrass (51)131
germination, cottonseed (52)104; (53)80; (56)74
light interactions (53)124

American Seed Research Council (50)57
American sycamore
germination (62)84

Amino acids
soybeans (60)162; (61)58
amylase
milling quality of seed (59)58
synthesis during germination (60)224

Analysis
variation among analysts (53)91

Analysts
training of (57)86, 100

Anchusa
seed-borne fungi (54)87

Angularity of seeds
white cockle (60)118

Annual ryegrass
perennial ryegrass compared (53)235

Annuloline
ryegrass fluorescence (62)149

Anthesis
cottonseed (55)154
sorghum (63)135

Numbers in parentheses refer to number of volume or number of annual meeting; following numbers refer to number of page.
Anthocyanin  
lettuces cotyledons (59)32

Antibiotics  
fungi control in germination of  
Kentucky bluegrass (50)141

Artificial aging  
oak, cherrybark (64)109  
ryegrass fluorescence (56)161

Artificial light  
grain grading (54)97

Ash  
prechill treatments (65)60

Aster, China  
seed-borne fungi of (54)87

Authors  
information on (54)110; (55)75

Automatic divider  
brome grass (62)73

Automation of purity analysis  
Kentucky bluegrass (62)68

Bahiagrass  
specific gravity (54)78  
Pensacola  
uniform blowing method (55)58

Baldhead seedlings  
beans (50)83

Barley  
aleurone color (65)66  
cultivar identification (59)134; (60)71  
embryo tests for loose smut (51)106  
growth test (56)52  
loose smut of (51)106; (52)94  
seed quality (51)64  
seed-borne organisms of (53)199  
seedling growth (56)52  
seedling stage,  
variety identification (60)71  
seed treatment  
alternatives (52)127  
stripe mosaic virus (57)132  
variety identification  
seedling stage (59)134

Barley, malting  
germination of (59)58

Basal internode, length of  
variety identification in oats (58)98

Basic sample unit  
purity analysis (62)55

Beans  
abnormal seedlings (50)83  
deterioration of seed,  
tetrazolium tests (58)107  
fusca blight (53)194  
preservation of blackening (62)125  
germination of (50)78; (52)135  
Xanthomonas phaseoli on (63)76

Beans, field  
seed-borne fungi (63)76  
variety identification (56)99

Beans, Lima  
vigor tests,  
seed bleaching (54)28

Beans, navy  
germination,  
peroxide (65)147

Beans, snap  
seed-borne fungi (63)76  
varietal identification (56)99

Beans, navy  
vigor tests,  
seed bleaching (54)28

Bioassay  
agar method,  
small grains (50)149  
mercury (58)37; (59)23

Biochemical tests  
seed vigor (50)126; (58)91; (65)113  
wild mustard (60)99

Biological detection  
2,4-D in rapeseed (62)130

Birds  
repellent (60)206
Bluestem, little purity analysis (57)77
Boerner divider bromegrass (62)73
chaffy grasses (62)76
Garet divider comparison (55)140
grass seed mixtures, subsampling (52)77
pasture mixtures (63)59
purity analysis (55)140,163
purity analysis (55)163
Brassica identification (53)180
Brick gravel test other vigor tests (58)89
Broad beans calcium nitrate (62)125
Brome grass purity analysis, seed dividers (62)73
Brome grass, smooth purity analysis (60)90
Buffaloberry germination (60)204
Buffalograss dormancy (56)120
Bulk density cottonseed (63)63
Cabbage seedling performance, seed size (63)117
Calcium nitrate broadbeans (62)125
Indian ricegrass (60)226
snapbeans (55)110
Calibration point Kentucky bluegrass (56)156
Canada thistle noxious weed seeds (52)102
Canadian commercial seed analysts (50)51
Canadian methods for germination Kentucky bluegrass (53)161
Canadian public service work (51)71
Canadian Seed Research Laboratory functions (52)60
Canarygrass germination (50)87
seed storage (57)124
Cantaloupe seed storage, aged seed (63)83
Carbohydrate content seeding vigor, soybeans (59)73
Carbohydrate leakage oak, cherrybark (64)110
Carbon dioxide release during germination, mesquite (53)58
Caryopsis cross section buffalograss (56)120
wheatgrass, tall (56)116
Captan assay for (55)106
colorimetric test (59)23
field emergence, soybeans (64)80
small grains (50)150
Catalase peanuts (61)73
CCC [2-chloroethyl]trimethylammonium chloride wheat growth regulation (56)113
Cellulose acetate prints of leaf surfaces (60)79
Centipedegrass germination, gibberellin (51)147
Cereals
fungicides (50)144
germination (59)58

Ceresan L
small grains (59)23

Chaffy grasses
purity analysis
dividers (62)73
pubescent wheatgrass (61)99

Chalcid-fly (65)109
floation analysis,
birdspoot trefoil (65)140

Chamber environment
germination,
red fescue (51)108

Chemical analysis
2,4-D in
rapeseed (62)130

Chemical staining
species identification,
Agropyron species (53)187

China aster
fungi of (54)87

Chromosome counts
ryegrass (57)117

Chromatography
crownvetch (65)43
techniques (59)23,32,34,35
variety identification (57)120
oats (58)98

Cinquefoil
silverweed,
wineleaf (59)154

Classification methods
cultivar identification,
clover, red (63)88

Cliffrose
tetrazolium test (63)67

Climate
aleurone color (65)66

Climax blowing method
bluegrass, Kentucky (50)66; (51)184; (51)194
techniques (50)27,31,34,52,56

Climax point
Canada bluegrass (53)172

Clover, crimson
deterioration (55)66
germination of gamma
irradiated seed (57)148
physical properties
viability (58)128
seed vigor (52)154
tetrazolium test (51)151
viability (55)30

Clover, red
cultivar identification (63)88; (64)90
physical properties,
viability (58)128

Clover, white
physical properties,
viability (58)128

Clovers
variety test (64)90

Clover seed
seed weight,
germination (65)52
viability (50)109

Coal tar
seed treatments (60)206

Cobb-Jones apparatus
germnination of sudangrass (53)151
slant towel test (56)52

Cockle, white
germination (60)118

Coefficient of velocity
seedling vigor,
soybeans (59)73
Cold test
corn (50)118; (60)181; (63)33
storability (55)94
other vigor tests (58)90
seedling vigor,
corn (54)100; (55)134
soybeans (61)41
spinach seeds (57)157
vigor tests (65)112

Coleoptile characteristics
light interactions,
wheat (59)132
variety identification (60)73
oats (58)98
wheat and barley (59)135

Coleoptile elongation
seedling growth,
barley (56)55

Coleoptile test
wheat varieties (59)131; (61)91
barley varieties (60)71

Colletotrichum gloeospiorides
culture of (59)82

Coloration
seed treatments,
small grains (58)118

Color of seeds
legumes,
viability index (58)128

Color prints
Nebraska weeds (59)160

Color sorting machine
clover, crimson (55)32

Commercial analysts
standardization (52)73

Committees, reports of
Accreditation of Laboratories (51)34;
(52)32; (53)24; (55)20
affiliations with associations
(52)34
AIBS membership (55)20; (56)16;
(57)25; (58)26; (59)24; (60)33;
(61)35; (62)38; (63)26
Analysis of pelleted seed (65)24
AOSA publications (57)25; (58)27; (59)24
AOSA representative to CAST (64)41; (65)32
Auditing (51)12; (62)15; (53)12; (54)12;
(55)13; (57)14; (59)12; (60)15; (61)11;
(62)11; (63)13; (64)11; (65)12
Awards (50)25
Bibliography (52)17; (56)16; (59)13;
(60)17; (61)13; (62)13; (63)15;
(64)14; (65)14
Bluegrass studies (50)27, 31, 34; (51)36
Budget (64)33; (65)26
Canada bluegrass blowing (57)21
Constitution (50)25; (51)40; (52)34;
(53)25; (55)20; (56)22; (57)24;
(58)24; (59)25; (60)33; (61)30;
(62)30; (63)21; (64)34; (65)27
Cooperation with analysts association (50)25
Cowpea varieties (57)35; (60)30
Detection of seed treatments (51)29;
(52)28; (53)32; (54)17; (55)18; (56)21;
(57)23; (58)23; (59)22
Dormancy in ryegrass seed (52)43
Dormant grass seed (57)20; (59)19; (60)23
Editorial (50)12; (51)12; (52)16; (53)13;
(55)13; (54)13; (55)14; (56)15; (59)13;
(60)17; (61)13; (62)13; (63)15; (64)13;
(65)14
Education and training (64)42
Equipment evaluation (52)38; (53)32;
(55)25; (56)28; (57)32; (58)33; (59)31;
(60)29
Finance structure (54)21
Firm seed (52)30; (54)16; (55)18
Fluorescence equipment (52)49
Fluorescence of ryegrass (52)51
Frequency of blower calibration (51)37
Forage grass varieties (57)33; (59)34
Gadgets (50)23
Garden bean seed germination (59)20;
(60)24; (61)22
Germination (51)30; (56)20; (57)20; (60)24
Handbook (51)14; (52)17; (53)13; (55)14;
(56)15; (60)24; (65)15
Hard seeds (60)29; (61)24
Health protection (52)38; (53)32; (55)25;
(56)28; (58)33; (62)30; (63)21; (65)25
History (56)16; (57)15; (58)16; (59)13;
(60)24
Indexing proceedings (51)15; (52)18;
(53)15
International cooperation (61)30; (62)31
Kentucky bluegrass varieties (57)35;
(59)34; (60)30
Committees, reports of (continued)

Laboratory report forms (56)26; (57)30

Legislative (50)14; (51)15; (52)18;
(54)14; (55)15; (56)16; (57)15;
(59)16; (59)14; (60)18; (61)14;
(62)15; (63)16; (64)15; (65)16

Lettuce cultivars (60)30

Liaison (50)24; (59)26; (60)34; (61)31

Meeting place (60)34; (62)31; (63)22;
(64)36; (65)27

Membership (50)14; (51)17; (52)19;
(53)15; (54)14; (55)15; (56)17;
(57)17; (58)17; (59)14; (60)18;
(61)14; (62)18; (63)16; (64)18;
(65)17

Membership and publications (53)30

Merion Kentucky bluegrass blowing
(54)16; (55)17; (56)19

Merit award (51)41; (52)34; (53)27;
(54)18; (55)20; (56)24; (57)27;
(58)29; (59)26; (60)34; (61)31;
(62)32; (63)22; (64)36; (65)28

Methods of testing bluegrass germination
(52)27

National seed standardization laboratory
(56)22; (57)24; (58)24; (59)27; (60)35;
(61)32; (62)33; (63)23; (64)37; (65)29

Necrology (60)24; (51)42; (52)35; (53)28;
(54)18; (55)21; (56)25; (57)29; (58)29;
(59)27; (60)35; (61)33; (62)35; (63)24;
(64)38; (65)29

Newsletter (51)15; (52)17; (53)13; (56)15;
(59)13; (60)17; (62)14; (63)16; (64)14;
(65)14

Nomenclature (56)29; (57)37; (65)22

Nominations (62)37; (63)26; (64)41; (65)31

Noxious weed seed (58)33; (59)31; (60)29;
(61)25; (62)30

Oat cultivars (57)34; (59)35; (60)31;
(61)28

Paper towel (52)40

Pathology testing (59)31; (60)29; (61)25;
(62)28; (64)29

Pensacola bahiagrass blowing (56)20

Phenol testing of wheat (54)22; (55)26;
(60)32

Planting value of firm seed (52)25

Preinoculated legume seed (52)31

Procedures for testing for varietal
purity (51)43

Public service (51)20; (54)15; (55)16;
(57)18; (58)19; (59)15; (60)25; (61)17;
(62)24; (63)18; (65)23

Quick test (51)44; (52)43; (53)33; (54)22;
(55)25

Range grass seeds (51)31; (52)25; (53)18;
(54)16; (55)17; (56)19; (59)20; (60)25;
(61)23; (62)26

Referee (50)16; (51)20; (52)22; (53)16;
(54)15; (55)17; (56)18; (57)18; (58)19;
(60)15; (60)21; (61)18; (62)24; (63)19;
(64)23; (65)21

Relations with agronomic organizations
(52)20

Relations with seed analysts' organiza-
tions (51)20

Report forms for laboratory analysis
(55)23

Report of research conducted by AOSA
(51)27

Research (50)16; (51)22; (52)24; (54)18;
(55)17; (56)19; (57)20; (58)20; (59)18;
(60)22; (61)21; (62)24; (63)20; (64)24;
(65)22

Resolutions (50)9; (51)10; (52)12; (53)9;
(54)9; (59)8; (60)15; (61)12; (62)11;
(63)13; (64)11; (65)13

Rules (50)20; (51)33; (52)27; (53)20;
(54)17; (55)18; (56)20; (57)22;
(58)22; (59)22; (60)28; (61)23;
(62)28; (63)20; (64)29; (65)24

Rye cultivars (60)31

Rye grass fluorescence test (52)43

Sampling and tolerances (50)22; (52)27

Science education (53)14; (54)13; (55)14;
(56)15; (57)15; (58)16; (59)13; (60)18;
(61)14; (62)14; (63)16; (64)14; (65)15

Scientific names (56)29

Seed analyst health and protection (51)49

Seed counts (55)18; (56)29; (57)21;
(58)22; (59)21; (60)26; (62)27

Seed symposium planning (65)32

Seed technology brochure (55)24

Seed technology research survey (57)22;
(59)21; (60)26

Sorghum cultivars (57)36; (59)36;
(60)31

Soybean cultivars (57)33; (59)36;
(60)32

Standardized tests (50)21

Teaching and training (65)31

Technique innovation (61)26; (62)26

Tetrazolium tests (56)29; (57)32;
(59)32; (60)30; (61)26; (62)28

Tetrazolium and biochemical measures
(64)27

Tree and shrub (51)33; (52)27; (53)20;
(54)17; (60)27
Committees, reports of (continued)
Tree seed research (59)21
Uniform blowing of bluegrass (59)22;
(60)27
Uniform classification of weed and
crop seeds (53)23
Varietal purity (50)23; (52)52;
(53)37; (55)26; (56)29; (57)32;
(59)32; (60)30; (61)27
Vernacular names (56)30; (57)37
Vigor testing (51)46; (52)53;
(53)37; (54)23; (56)31; (57)36;
(58)34; (59)36; (60)32; (61)28;
(64)24
Wheat varieties (57)34
Commercial seed technologists
addresses (50)48,51; (51)62
Conductivity
pea seed (63)51
vigor tests (65)114
Confidence limits
fluorescence tests (57)56
Conidia
seed-borne fungi (59)86
Containerized reforestation (65)156
Contrast agents
X-ray of pine seed (58)76
Control valve
seed counter (51)112; (55)52
Control of fungi in germination
of Kentucky bluegrass
antibiotics (50)141
Controlled environments
wheat,
cultivar determination (61)91
Convolvulraceae
noxious weed seeds,
key to species (59)101
Cooperation between commercial and
official analysts (59)40
Corn
cold test (50)118; (60)181
deterioration of seed (58)107; (63)33
freeze injury (57)138
germination (54)93; (61)123
gamma-irradiated seeds (57)148
seedling vigor (50)54; (55)131; (56)95
glutamic acid decarboxylase activity
(54)100
respiration (56)95
seed treatments (54)93
southern leaf blight (61)119,123
stability (55)94
tetrazolium
germination, vigor (51)125
varietal purity (50)63
vigor,
indices (54)50
Cottonseed
alternating temperatures (52)104;
(53)80; (56)74
anthesis (55)154
bulk density (63)63
deterioration of seed,
tetrazolium (58)107
maturation (55)154
mechanical damage (55)97
germination (50)97; (52)104; (56)74;
(60)138
temperature of germination (52)104;
(53)80; (56)74
tetrazolium tests (60)100
vigor tests (51)99
Cottonseed cutter
tetrazolium tests (60)100
Cotyledon necrosis
lettuce (60)173
Cotyledon removal
beans, snap (50)76
Coumarin effects
sweetclover germination (53)80,119
Crambe seeds
aged seed (63)148
germination (55)47,169; (59)44,51
longevity (63)148
purity (55)169
Cross section of caryopsis
buffalograss (56)120
wheatgrass, tall (56)116
Crownvetch
abnormal seedlings (62)101
germination (62)101
injury (62)109
phytotoxic substances (65)38

Cultivar determination
wheat, winter (61)91

Cultivar identification
barley (65)66
clover, red (63)88
wheat, phenol reaction (65)143

Cultivar purity
soybeans (64)115

Culture of fungi
microbiological assay (55)124

Crust resistance
germination,
peroxide (65)147

Dallisgrass
germination and purity (59)16
purity analysis (54)79

Damaged seed
flaxseed (51)139
germination,
safflower (51)141
mechanical,
alalfa (50)101
peroxide,
safflower (51)141
storability,
peanuts (61)78
X-ray detection,
tree seeds (57)96

Death of seed
definition (53)190

Deglumed caryopses
germination effects,
needlegrass (53)74

Dehulled seed
dormancy effect,
rice (54)41

9

Dehydrogenase
peanuts (61)73
peas (63)51
soybeans (60)158

Density
cottonseed (60)138,147

Deplasmolysis
soybeans (61)112

Desiccation-induced injury
freeze-drying (65)159

Detection of
fungi and fungicides (50)144

Deterioration of seed
clover, crimson (52)154
corn (63)33
growth test (56)52
pea seed (63)51
rice seeds (63)155
sorghum (63)135
soybeans (60)149,158; (61)41; (64)63
tetrazolium tests (58)107
peanut seed (60)104

Diaporthe phaseolorum
soybean (50)137

Dimorphotheca
seed storage (57)67

Dieldrin and diazinon
insect repellants (60)206

Dimorphotheca sinuata
seed storage (54)67

Diseases
corn, Southern leaf blight (61)119,123
loose smut of barley (52)94
soybeans,
water damage (61)112

Displacement
cottonseed (60)138
Dividers
- bluegrass, Kentucky (62)68
- bromegrass, smooth (62)73
- chaffy grasses (62)76
- pasture mixtures (63)59

Docks
- germination (50)112

Dormancy
- alternating temperatures (51)131
- ash (55)60
- blue grama (52)112
- bluegrasses, Kentucky (60)219
- bitterbrush, antelope (60)127
- buffalograss (56)120
- docks (50)112
- Dyer's greenweed (62)154
- geranium (61)105
- giant foxtail (61)85
- gibberellic acid, lesquerella (63)102
- hawkweed and cinquefoil (59)158
- Indian ricegrass (60)226
- lettuce (60)167
- millet, brown top (51)93
- millet, foxtail (52)109
- millet, Japanese (60)132
- oak (56)82
- peanut seed (55)121; (61)68
- range grasses (53)100
- rice (54)41
- smartweed (62)98
- sorghum (53)107
- Sorghum vulgare (52)169
- spruce, Canadian white (64)72
- watermelon (58)80
- wheatgrass, western (56)110
- wheatgrass, tall (56)116

Drill box survey
- oats (57)75

Drying rate
- bluegrass, Kentucky (55)43

Dry heat
- germination, small grains (52)127

Dyer's greenweed
dormancy (62)154

Education and training
- books and visual materials (64)49
- college level courses (64)42
- non-academic short courses (64)47
- tetrazolium (64)57
- update training (64)54

Electrolyte exudation
- field emergence, peas (58)70

Electrophoresis
- ryegrass (56)47

Electrostatic separator
clover, crimson (55)32

Embryo
- damage, soybeans (64)97
- excision, ash (65)60
- separation, loose smut of barley (52)94
- tests, loose smut of barley (51)106

Emergence
- bean seed, fuscous blight effects (53)194
- sorghum (63)135
- orchardgrass (62)145

Embry seed
- sedges (57)109

Endogenous rhythms
- Kentucky bluegrass (59)95

Energy levels
- adenosine triphosphate, lettuce seeds (62)116

Environmental influence
- aleurone color, barley (65)66

Enzyme activity
- adenosine triphosphate, lettuce seeds (62)116
- corn (63)33
- peanuts (60)104; (61)73
- phenol oxidase, wheat (65)143
- vigor tests (65)115
Epidermal cells
bluegrass, Kentucky (60)81

Equilibrium moisture
canarygrass, reed (57)127

Equipment
cottonseed cutter (60)100
seed testing (57)86

Equipment evaluation
committee report (52)38; (53)32

Estimates
weed seed tolerances (51)82

Ethrel
peanuts (61)68,73

Ethylene oxide
sterilants for packaging (51)174
effects on germination of small
grain (52)127
seed tolerance (54)32

Excision method
sugarbeets (57)45

Exhaust system
seed blower (54)82

Exhaustion test
oak, cherrybark (64)110
other vigor tests (58)91

Factor method
brome grass, smooth (60)90
wheatgrass, pubescent (61)99
tall (59)93
western (60)96

Farms
decrease in numbers (59)39

Fast green stain
crownvetch, injury of (62)109

Fat content
oat varieties (58)125

Fern sporocarps (52)100

Fescue, red
germination
chamber environment (51)118

Field emergence
alfalfa seed (57)60
corn (56)97
fungicide effects,
soybeans (64)80
peas (57)144; (58)70
respiration (55)135
seed treatment effects,
corn (54)93
seed vigor (50)127
seedling vigor

soybeans (54)100
sorghum (63)139
sugarbeet seed (56)130

vigor tests (58)93
peas, garden (50)133

Field deterioration of seed
soybeans (64)63

Field germination
beans, snap (55)119
cold tests,
corn (50)121
onion seeds (52)133
spinach seeds (57)157

Field performance
cabbage and turnip,
seed size (63)119
cottonseed (63)63
lettuce,
cotyledon necrosis (60)173

Fiber content
oat varieties (58)125

Fir, noble
storage (63)161

Fir species
germination,
seed treatments (59)148

Firm seed
bahiagrass (59)17
grama, blue (52)112
millet, browntop (51)92
millet, foxtail (52)109
Factor method
bromegrass, smooth (60)90
wheatgrass, pubescent (61)99
wheatgrass, tall (59)93
wheatgrass, western (60)96

Farms
decrease in numbers (59)39

Fast green stain
crownvetch, injury of (62)109

Fat content
oat varieties (58)125

Fern sporocarps (52)100

Fescue, red
germination
chamber environment (51)118

Field emergence
alfalfa seed (57)60
corn (56)97
fungicide effects, soybeans (64)80
peas (57)144; (58)70
respiration (55)135
seed treatment effects, corn (54)93
seed vigor (50)127
seedling vigor
corn (54)100
sorghum (63)139
sugarbeet seed (56)130
vigor tests (58)93
vigor tests
peas, garden (50)133

Field deterioration of seed
soybeans (64)63

Field germination
beans, snap (55)119
cold tests, corn (50)121
onion seeds (52)133
spinach seeds (57)157

Field performance
cabbage and turnip, seed size (63)119
cottonseed (63)63
lettuce, cotyledon necrosis (60)173

Fiber content
oat varieties (58)125

Fir, noble
storage (63)161

Fir species
germination, seed treatments (59)148

Firm seed
bahiagrass (59)17
grama, blue (52)112
millet, browntop (51)92
millet, foxtail (52)109

Gamet divider
bromegrass (62)73
bluegrass, Kentucky (62)68
chaffy grass (62)176
pasture mixture (63)59
purity analysis (55)140,103

Gamma-irradiated seeds
germination (57)148

Gas storage
lettuce seed (52)116

Geranium
germination of (61)105

Germination
abnormal seedlings
beans (50)83
aged seed (60)23
alfalfa seed (50)101; (57)60; (60)29
alpine species (53)91
American sycamore (62)84
bahiagrass (55)61
beans (50)78; (52)135; (53)194;
(55)110; (59)117; (60)24
beans, field
sand versus slant rolls (52)135
bitterbrush (57)89
bluegrass (53)85
bluegrass, Kentucky (60)219
Canadian methods (53)161
endogenous rhythms (59)99
bromegrass, smooth (60)90
buffalograss (56)120
cabbage and turnip, seed size (63)120
canarygrass (50)90
Germination (continued)
cantaloupe (63)83
centipedegrass
  gibberellin (51)147
cereals (59)58
chamber environment, fescue, red (51)108
cillow (63)69
clover (65)52
clover, crimson (55)31,67
cockle, white (60)118
corn (56)97
cottonseed (50)97; (52)104; (53)80; (55)97,161; (56)74; (60)100,138; (63)63
cowpea (60)206
crambe seed (55)47,169; (59)44,51,57
crownvetch (62)101
deteriorated seed, soybeans (64)63
docks (50)112
dormancy, spruce (Picea) (51)165
eight-day, soybeans (59)73
endogenous rhythms (59)95
estimation of (57)45
fescue
  chamber environment (51)118
  field (55)128
  field emergence
peas, garden (50)135
fir, noble (63)164
fir species
  seed treatments (59)148
flaxseed (51)139
flower seeds (55)82; (57)170
four-day, soybeans (59)73
foxtail, giant (61)85
fungi control
  in bluegrass (50)141
fungicide effects, soybeans (64)80
gamma-irradiated seeds (57)148
geranium (61)105
gibberellin,
centipedegrass (51)147
grama, blue (52)112; (56)126
grama, side-oats (53)185
hard seeds (60)29
hawkwed and cinquefoil (59)154
hulless seeds, wheatgrass (53)165
increase speed of (53)144
Indian ricegrass (60)226
irradiated seeds (57)148
kochia seeds (53)45
kinetin (60)167
legumes,
  physical properties (58)128
lesquerella (56)148
lettuce (59)17; (60)167
light effects (53)124
Livingstone daisy (60)123
maturity of seed relationships (60)188
mechanical damage
  alfalfa (50)101
  cottonseed (55)97
mesquite (53)58
micro-process shelling (56)61
millet, foxtail (52)109
millet, Japanese (60)132
moisture control,
  substrata (51)155
moisture relations (59)58
mountainmahogany (63)126
muskmelon (60)206
nasturtium
  seed development,
    abnormal seed (51)78
needlegrass seed (53)66,74
oak (56)82
oak, cherrybark (64)109
oats (59)41
onions (52)133
opportunities for progress (58)63
optimum temperature (60)213
orchardgrass (53)92; (62)135
paper for (52)41
peanuts (60)104; (61)68
  damaged seed (61)78
pea seed (57)144; (63)51
peroxide,
  seedling emergence (65)147
petunia (59)17
pine (56)89; (57)161
pine, red (63)94
pine, sand (65)88
pine, slash (62)91
preplanted seeds (52)137
pubescent-type seeds,
  wheatgrass (53)165
quicker tests (60)213
rapeseed (62)130
rate of swelling,
  small-seeded legumes (50)110
germination (continued)
repellent-treated seeds (60)206
resistance formula (59)60
rice (60)188,206; (63)155
rye (59)18
ryegrass
dormancy (51)178; (51)131
ryegrass (58)163
safflower
damaged seeds (51)141
seedcoat damage,
soybeans (64)97
seed treatment effects (54)32,93;
(60)206
seed storage
corn (55)95
seedling vigor
corn (54)100; (55)133
seed-soil relationships (55)110
shrubs (60)197
sedge seeds (57)107
sensitive plant (52)140
small grains (59)58
dry heat, ethylene oxide,
and vitamins (52)127
small-seeded legumes (50)112
smartweed (62)94
sorghum (52)169; (63)138
soybeans (50)137; (60)149,158;
(61)158
spinach (53)51; (57)157
speed of (53)144
spruce (51)165; (64)129
spruce, Canadian white (64)72
sterilants for packaging,
ethylene oxide (51)174
stored seeds,
hemp and kenaf (53)213
substrate moisture level (65)88
sugarbeet seed (56)130; (57)45;
(59)16; (60)213
sweetclover (53)112,119
sweetgum (62)87; (65)88
temperature
cottonseed (56)74,89; (50)97
thiourea,
bitterbrush (60)127
triticale (59)16
variation among laboratories,
tolerances (51)87
vegetable seeds (51)125
verbena (53)96
vigor index,
corn (54)56

germination (continued)
vigor selection (65)90
wheat (59)131,141; (60)213
wheatgrass
hulled seeds (53)165
pubescent (61)99
tall (61)99
western (53)55; (56)110

germination cells
cottonseed (60)138

germination index
beans (50)82

germination medium
cold tests (50)119

germination resistance
cereals (59)58

germination speed
wheat,
seed protein content (63)106

germination value
definition (64)109
pine (56)89

germinator
alternating-cycle temperature (56)38
design
water-circulating (52)81

genotypic variation
germination
canarygrass (50)89
cottonseed (50)98

Giant foxtail
noxious weed seeds (52)102
germination (61)85

Gibberellic acid (GA)
barley cultivars (60)71
bluegrass, Kentucky (60)219
dormancy (60)226
lesquerella (63)102
germination
centipedegrass (51)147
lesquerella (56)148
light interactions (51)147; (53)124
orchardgrass (62)141
wheat (60)213; (61)91
Gilson differential respirometer
seedling vigor,
corn (55)138

Glomerella cingulata
sorghum seeds (59)82

Glucose percentage
seedling vigor,
soybeans (59)73

Glutamic acid decarboxylase activity (GADA)
corn (63)33
storability (55)94
seedling vigor (54)100
peanuts (61)73
rice (63)155
soybeans (59)73
seedling vigor (59)73
vigor tests (65)114

Government
purchase standards (51)73

Grain grading
light and background effects (54)97

Grama grass, blue
purity analysis (56)124
side-oats
purity analysis (53)183

Grass seed
chaffy types (62)76
Boerner divider (52)47,77
flotation techniques (54)73
micro-process shelling (56)61

Greenhouse emergence
field harvest (65)92

Greenhouse studies
southern corn leaf blight (61)123

Groundnut
germination (61)68
metabolic activity (61)73
storability (61)78

Growth chamber
sand tests,
beans (50)81

Growth rate
corn (63)33
orchardgrass (62)145
seed vigor (50)126
soybeans (61)41

Growth regulation
CCC,
wheat (56)113

Growth tests
freeze injury,
corn (57)138
seed deterioration (56)52; (58)107
seed viability (53)191
soybeans (61)112

Growth type
cultivar identification
clover, red (63)88; (64)90

Hand method
purity analysis,
bluegrass, Kentucky (50)70

Hard seed
crownvetch (62)101
geranium (61)105
hawkweed and cinquefoil (59)158
sedge species (57)107
seedling rate determination (52)123
sensitive plant (52)140

Harvest dates
seed deterioration,
soybeans (64)67
Hawkweed, mousear
germination of (59)154

Heading date
ryegrass,
annual and perennial (54)84

Health protection
conditions for seed evaluation (58)95
treated seeds (52)38

Heat
liberated during germination,
mesquite seeds (53)62
Heavy seed germination percentage, bluegrass, Canada (53)168
Helminthosporium spp. on small grains (52)150
Hemp seed storage (53)210
Herbage seed Canadian production of (59)42
Hila discoloration soybean (64)115
Hilum Leguminoseae (60)51
History seed testing equipment (52)89
Horse nettle noxious weeds, Canada (51)172
Hot air seed treatment (54)32
Hot water germination shrubs (60)197
Dyer's greenweed (62)154
Hulled seed centipedegrass (51)147
wheatgrass (53)165
Hydrochloric acid breaking dormancy (60)99
cultivar identification, barley (65)66
Hydrogen peroxide soak sugarbeet seed (56)130
Hypocotyl characteristics variety identification, oats (58)98
Hypocotyl length adenosine triphosphate levels (62)119
Identification barley cultivars (59)134
wheat cultivars (59)134
Imbibition rate germination orchardgrass (62)141
light effects (53)124
seed-soil relationships (55)128
wheat, protein content (63)106
Immature embryo tetrazolium tests (56)71
Immature seed bluegrass, Kentucky (55)44
rice (60)195
Impatiens germination (56)139
Indian ricegrass germination (60)226
Indoxyl acetate crownvetch (62)109
Inert florets bluegrass, Kentucky (56)157
Inert gas seed storage lettuce seed (52)116
Information for authors (54)110; (55)174
Inhibitors germination effects (53)144
Injury geranium (61)105
Insect damage alfalfa (50)105
Inspection station purity analysis, treated seed (55)76
Internode characteristics variety identification, barley (60)73
Irradiated seed germination (57)148
Japanese millet germination (60)132
Johnsongrass noxious weed seeds (52)102
Journal style requirements (55)175
Kenaf seed storage (53)210
Key manometer reading bluegrass, Kentucky (53)173
Key to species Convolvulaceae (59)102 Vicia (60)48
Key to varieties bluegrass, Kentucky leaf epidermis (59)124
Kinetin germination lettuce (60)167 Indian ricegrass (60)226
Kochia seeds germination (53)45
Kotowski's coefficient of velocity bluegrass (53)85
Labeling ryegrass (53)229
Laboratories comparison of (51)76 proficiency of (52)32
Laboratory and greenhouse comparisons variety identification, wheat and barley (59)138
Laliberti apparatus germination of bermudagrass (53)150
Lawn seed legislation ingredients in mixtures (51)60
Leachate crownvetch (65)41 field germination (55)129 membrane deterioration (60)164
Leaf elongation seedling growth barley (56)55
Leaf epidermis variety identification bluegrass, Kentucky (60)79
Leaf sheath characteristics variety identification barley (50)73 wheat (61)91
Legislation changes in (51)172 lawn seed (51)60
Legumes catalog of seeds (60)49 germination of (50)109 viability of (58)128
Length of seed variety identification bluegrass, Kentucky (58)46
Length of test germination, crambe seed (55)48
Lens key to species (60)48
Lettuce cotyledons anthocyanins (59)32
Lettuce seeds adenosine triphosphate (62)116 aged seed (62)121 germination (60)167 purity (59)33 seedling vigor (62)116 storage, vacuum and inert gas (52)116 vigor (60)173
Lesquerella
  dormancy (63)102
  germination (56)148

Light
  alternating temperatures (53)124
  coleoptile length
    wheat (59)132
  detection of
    seedling growth test (56)55
  dormancy breaking
    spruce, Canadian white (64)72
  germination effects (53)124;
    (59)44,51
  American sycamore (62)84
  centipedegrass (51)147
  crambe seed (55)48
  docks (50)115
  fescue (51)118
  flower seeds (55)87
  hawkweed and cinquefoil (59)154
  impatiens (56)139
  Livingstone daisy (60)123
  needlegrass (53)70
  pine (56)89
  Spruce (Picea) (51)165
  wheatgrass, western (53)55
  gibberellin
    germination (51)147
    red and far-red (60)167
  ryegrass
    fluorescence (62)149
  stratification interaction
    bitterbrush (57)89
  temperature interactions (57)161
    pine (56)89
  ryegrass (54)84
  thermogradient plate (59)44
  wave-length effects (53)124

Lindane
  chromosome counts (57)117

Livingstone daisy
  germination (60)123

Longevity
  bluegrass, Kentucky (55)43
  corn (63)33
  crowntvetch (62)109
  docks (50)114
  grama, blue (52)112
  sorghum (53)107
  soybeans (61)41
  tomato and potato (56)107

Loose smut (Ustilago nuda)
  barley (51)106
  embryo separation (52)94

Macro-hairs
  variety identification
    bluegrass, Kentucky (60)80

Malting quality
  germination (59)58

Markers for seeds
  fluorescent paints (57)71

Marsilea sporocarps
  identification (55)56

Maturity of seeds
  bluegrass, Kentucky (55)43
  cockle, white (60)118
  cottonseed (55)154
  foxtail, giant (61)85
  rice (60)188
  soybeans,
    seedcoat (64)102

Mean daily germination
  definition (64)109

Mechanical damage
  germination
    alfalfa (50)101
    beans, snap (55)110
    cottonseed (55)97
    geranium (61)105
    soybeans (53)215; (64)97
    peanuts (61)78
    seed vigor (65)90
    sorting (65)96
    storage effects,
      soybean (53)215
    tetrazolium tests (56)71

Mechanical divider
  purity analysis (55)163

Mechanical method
  side-oats grama (55)148

Mechanical shelling
  peanuts (61)78

Mechanization
  purity (57)100
Media
Glomerella cingulata (59)82

Member laboratories
list (59)6
forest tree seed (60)20

Membrane permeability
corn (63)33

Mercury
biological determination of (58)37
fungicide (50)150; (59)141

Mercurial fungicide
assay for (55)107

Mesquite
germination (53)58

Metabolic activity
peanut (61)73

Metalic ions
germination,
cereals (59)58

Microbiological assay
culture of fungi (55)124
treated seed,
yre (51)114
seed treatment (53)21

Micronutrients
variety identification,
clover, red (64)90

Microorganisms
assays for treated seed (55)104
cereals (59)65

Micro-process shelling
germination and purity (56)61

Millet
dormancy (51)92
foxtail
firm seeds (52)109

Milling quality
amylose content (59)58
wheat (59)17

Minutes of annual meeting
(50)7; (51)6; (52)7; (53)5; (54)7;
(55)6; (56)8; (57)9; (58)8; (59)5;
(60)7; (61)5; (62)6; (63)5; (64)6;
(65)7

Mixtures
divider comparison (63)59
lawn seed ingredients,
bluegrass (51)60

Modified method
bluestem, big (57)83
bluestem, little (57)77
bluestem, sand (58)87
grama, side-oats (55)150

Moistening agent
germination
crambe seed (55)47
fescue (51)118
Indian ricegrass (60)226

Moisture
cold tests (50)120
of germination medium
beans (50)80; (55)110
cereals (59)58
substrata (51)155
seed storage
clover, crimson (55)67
fir, noble (63)161

Moisture percentage
cottonseed (55)160
sorghum (52)169

Mold
thiourea (60)127

Moonflower, purple
taxonomy (59)116

Monogerm
sugarbeet seed (56)130; (57)47

Mountainmahogany
germination (63)126

Multiple florets
bromegrass (60)90
wheatgrass, pubescent (61)99
Nasturtium
  germination (51)78

National Standardization Seed Laboratory progress report (55)64

Necrosis
  seed deterioration
  peanuts (60)104
  tetrazolium test (56)71

Needlegrass seed
  germination (53)67

Negative results
  purity analysis
  noxious weed seeds (62)43

Nematode galls
  identification (65)107
  wheatgrass, western (53)208

Nitric acid
  Indian ricegrass (60)226

Nitrogen content
  seedling vigor, soybeans (59)73

Nomenclature
  plants (56)167, 175

Nondestructive sorting
  vigor selection (65)90

Noxious weed seeds
  alfalfa (65)75
  Canada (51)172
  drill box survey oats (57)75
  Convolvulaceae (59)101
  purity analysis (62)43, 49, 58
  variation in seed numbers (52)102

Nursery sowing
  spruce, Canadian white (64)72

Oaks
  cherrybark (56)82
  northern red (56)82
  vigor (64)109

Oats
  protein, fat and fiber (58)125
  seed-borne fungi (56)143
  seedling vigor
    glutamic acid decarboxylase activity (54)100
  seed quality (51)64
  seed survey (57)75
  seed treatment
    alternatives (52)127
    coloration (58)118
    variety identification (57)121; (58)98

Official analysts (52)75

Official method
  bluestem, big (57)83
  bluestem, little (57)77
  bluestem, sand (58)87
  bromegrass, smooth (60)90
  grama, side-oats (55)148
  wetting and drying (62)135
  wheatgrass, pubescent (61)99
  wheatgrass, tall (59)93
  wheatgrass, western (60)96

Onion
  field germination (52)133

Optical density
  soybeans (60)158

Optimum conditions
  germination (58)63

Orchardgrass
  germination (53)92; (62)135
  purity analysis (54)79; (56)61

Osmotic pressure
  germination, cereals (59)58
  light interactions (53)124

Osteospermum
  seed storage (57)67

Oxygen
  consumption during germination,
    mesquite seeds (53)58
  germination of cereals (59)58
  requirements for germination (59)98
Packaging materials
- peanut seed (58)58
- safflower (64)120

Panicle exsertion
- sorghum (63)135

Paper piercing test
- other vigor tests (58)90

Paper towel
- committee report (52)40

Papers and reports
- style requirements (53)237; (54)110

Pasture mixtures
- purity analysis,
  - seed dividers (63)59

Peak value
- germination (64)109
- pine (56)89

Pea seed
- accelerated aging (63)51
- bleaching (63)51
- field emergence (58)70
- key to species (60)48
- vigor tests (50)130; (57)144

Peanut seed
- accelerated aging (61)78
- dormancy (55)121; (61)68
- germination (61)68
- gamma-irradiated seeds (57)148
- longevity (58)58; (60)104
- mechanical shelling (61)78
- metabolic activity,
  - seed size (61)73
- size classes (61)73
- storability (61)78
- tetrazolium staining (60)108,112

Pearling
- barley (65)66

Peppergrass, field
- purity analysis (52)102

Peroxide
- germination
  - safflower (51)141
  - smartweed (62)95
  - Indian ricegrass (60)226

Pesticides
- detection,
  - small grains (50)148

Petiole length
- variety identification,
  - beans, field (56)101

Petri dishes
- moisture control (51)155

Phenolic acid
- wheat
  - cultivar determination (61)91

Phenol oxidase
- cultivar identification
  - wheat (65)143

Phenol test
- procedure (54)22
- variety identification
  - bluegrass, Kentucky (58)46
  - wheat, winter (61)91

Photography
- in seed technology (50)43

Photoperiod
- variety identification,
  - clover, red (64)90

Physical measurement tests
- seed vigor (50)127; (58)128; (65)110

Physiological necrosis
- lettuce seed (60)173

Physiological tests
- seed vigor (65)111

Phytochrome
- bluegrass, Kentucky (60)219
- germination effects (53)124
Piercing seeds
  foxtail, giant (61)85
  sorghum (53)107
  wheatgrass, tall (56)113

Pine
  germination (57)161
    red (63)94
    thiram (62)91
    loblolly (56)89; (50)76
    longleaf (58)76; (65)84
    tetrazolium tests (65)84
  viability (58)76

Plant color
  varietal identification, corn (50)64

Planter-box
  seed treatments, soybeans (64)80

Plants
  nomenclature (56)167,175

Plasmolysis
  soybeans (61)112

Pneumatic separator
  clover, crimson (55)31

Polyacrylamide gels
  ryegrass (56)47

Polyelectric treatments
  germination (65)147

Poppy
  fungi of (54)87

Postchilling
  germination, ryegrass (51)131

Potassium nitrate (KNO₃) (continued)
  hawkweed and cinquefoil (59)156
  Indian ricegrass (60)226
  lesquerella (56)148
  light interactions (53)124; (59)156
  millet, dormant seed and firm seed (51)93
  needlegrass (53)74
  ryegrass,
  germination (51)131
  shrubs (60)197
  smartweed (62)95
  stratification interaction,
  bitterbrush (57)94
  wheatgrass, tall (56)113

Potato seeds
  longevity (56)107

Prechilling treatments
  ash (65)60
  crambe seed (55)47
  Dyer's greenweed (62)154
  foxtail, giant (61)85
  germination
  fescue (51)118
  smartweed (62)94
  spruce (51)165
  hawkweed and cinquefoil (59)154
  Indian ricegrass (60)226
  millet, Japanese (60)132
  needlegrass (53)70
  orchardgrass (53)92
  pine (57)161
  ryegrass (51)131
  shrubs (60)197
  spruce, Canadian white (64)72
  verbena (53)96
  wheatgrass, tall (56)116

Predrying
  dormancy
    peanut seed (55)121
  germination
    millet, Japanese (60)132
    ryegrass (51)131

Pre-germination
  cereals (59)58
Preplanted seeds
  testing of (52)137

Presidential address (50)43; (51)47; (52)55; (53)40; (54)24; (55)27; (56)32; (57)38; (58)35; (59)37; (60)37; (61)38; (62)40; (63)29; (64)60; (65)35

Pretreatments
  Indian ricegrass (60)226

Prickle-hairs
  variety identification
    bluegrass, Kentucky (59)124; (60)71

Probability
  purity analysis,
    noxious weed seeds (62)43

Processing injury
  crownvetch (62)109

Productivity
  lettuce seeds,
    adenosine triphosphate (62)116

Protein content
  oats (58)125
  seed performance
    wheat (63)106
    vigor tests (65)114

Pubescence
  variety identification,
    oats (58)98

Pubescent-type seeds
  germination,
    wheatgrass (53)165

Publication requirements (50)154

Public service panel
  report (51)71

Public service program
  need for (51)74

Purchase standards
  government (51)73

Pure live seed
  bahiagrass (55)60
  bluegrass, Kentucky (50)66; (56)156
  bromegrass, smooth (60)90
  grama grass, blue (56)126
  grama, side-oats (53)185; (55)151
  seeding rate determination (52)123
  wheatgrass, pubescent (61)99
  wheatgrass, tall (59)91

Purity analysis
  alfalfa (65)75
  blowing procedure,
    bluegrass, Kentucky (56)154
  bluestem, big (57)81
  bluestem, little (57)77
  bluestem, sand (58)85
  Brassica species identification (60)99
  bromegrass (62)73
    smooth (60)90
  dividers (55)140; (62)76
  climax method,
    bluegrass, Kentucky (50)66; (51)184,186,194
    equipment (57)100
    flotation,
      birdsfoot trefoil (65)140
    grass seeds (54)73
  grama grass,
    blue (56)124
    side-oats (53)183; (55)148
  hila discoloration,
    soybeans (64)115
  micro-process shelling (56)61
  noxious weed seeds (62)43,49
  present and future (57)85
  rorippa (53)177
  sampling devices,
    bluegrass (62)68
  seed dividers,
    pasture mixtures (63)59
  tolerance (50)60
  treated seed,
    inspection station (55)76
  wheatgrass, pubescent (61)99
  wheatgrass, tall (59)91
  wheatgrass, western (60)95

Pythium
  corn seed (60)181
  soybeans (60)154
Quality control
noxious weed seeds (62)58

Quick test
committee report (52)43
crownvetch (62)101
identification of Brassica species (60)99

Radiofrequency treatment
Indian ricegrass (60)226

Radiography
seed testing (64)94

Radish
germination, gamma-irradiated seeds (57)148

Range grasses
firm seed (53)100

Rapeseed
2,4-D contamination (62)130
velvet roll separator (65)75

Rapidity of imbibition
crownvetch (62)101

Rate of seed swelling
clover, crimson (55)68
small-seeded legumes (50)109

Red light
germination effects (53)124

Red shield
repellent (60)206

Referee tests
results (59)15; (60)21

Relative humidity
corn storage (63)33
crambe seeds (63)148
peanut seed (58)58; (60)104; (61)78
rice seeds (63)155
seed storage
bluegrass, Kentucky (55)43
fir, noble (63)163
peanuts (58)58; (61)78
safflower seeds (64)120

Repellent
birds and insects (60)206

Representative samples
purity analysis
brome grass (62)73
chaffy grasses (62)76
dormancy (54)41
germnition of (60)188
seed development (60)188

Research laboratory
functions (52)60

Research
seed technology (58)63

Resorted seeds
vigor selection (65)93

Respiration
bluegrass, Kentucky (60)219
corn (55)131
deterioration (63)33
doak, cherrybark (64)109
orchardgrass (62)141
peanuts (60)40; (61)73
protein content, wheat (63)106
seed vigor
corn (55)131; (56)95
peas (57)144
soybeans (59)73
tests (66)13
soybeans (59)74; (60)158; (61)41,58

Respiratory quotient
pea seed (57)144

Rhizoctonia solani
fir seeds (59)148
identification of (65)103
occurrence (58)29; (59)148
Red Shield repellent (60)211
seed hosts (58)111
wheat (60)211

Rice seed
accelerated aging (63)155
deterioration (63)155
dormancy (54)41
germnition of (60)100
seed development (60)188

Range grasses
firm seed (53)100
Rice seed (continued)
  seed maturation (60)188
  seed vigor,
  specific gravity (52)162
  speed of germination (53)144
  storage (63)155
Roll towel test
  beans (50)78
Root disturbance
  ryegrass,
  fluorescence (62)149
Root elongation
  cabbage and turnip,
  seed size (63)124
  wheat,
  seed protein content (63)114
  seedling growth,
  barley (56)55
  sorghum (63)139
Root length
  corn storability (55)94
  seedling vigor,
  corn (54)100; (55)136
  vigor tests,
  pea seeds (57)144
Root rot
  soybean,
  test for resistance (57)130
Rorippa
  maturity of seeds (53)177
Rumex
  germination,
  dormancy (50)112
Ryegrass
  aged seed (56)161
  alternating temperatures (51)131
  annual and perennial distinction
    heading date (54)84
    proteins (56)47
  chromosome counts (57)117
  dormancy (51)131,178
  germination (51)131; (52)43
  labeling,
    Oregon (53)229
  seed dormancy,
  committee report (52)43
  variety identification (57)121; (59)34
Ryegrass fluorescence
  annual and perennial comparison (52)51
  annuloline (62)149
  artificial aging (56)161
  confidence limits (57)54
  committee report (52)43; (53)32
  techniques evaluation (57)112
Rye
  microbiological assay (51)114
  pre-germination (59)58
  seed treatment,
    alternatives (52)127
Safflower
  germination
    damaged seeds (51)141
    storage (64)120,126
Sample mixing and dividing
  Boerner divider (55)140
  Gamet divider (55)140
  new mechanical divider (55)162
Sampling (62)68,73,76
Sand tests
  beans (50)78
Scarification
  Dyer's greenweed (62)154
Sclerotia
  identification (65)102
Sclerotic granules
  identification (65)107
Scopoletin
  crownvetch (65)38
Screening
  chalcid-fly,
    birdsfoot trefoil (65)140
Seed age
  germination,
    lettuce (60)167
Seed analysts
  job description (53)24
Seed-borne diseases
  barley stripe mosaic virus (57)132
Seed-borne fungi
anchusa (54)87
aster, China (54)87
barley (53)199
beans, field (63)76
germination tests (57)141
flower seeds (54)87
oats (56)143
seed treatments (55)107
small grains (50)144; (58)111
sorghum (59)82
Southern leaf blight of corn (61)58
soybeans (50)137; (64)115
tests for (58)95
Seed characteristics (58)46
canarygrass (50)87
Seedcoat
beans, snap (50)76
color; cockle, white (60)118
damage,
alfalfa (50)102
soybeans (64)97
pea seed,
deterioration (63)51
soybeans (61)112; (64)103
thickness,
soybeans (64)102
Seed color
clovers (65)52
Seed counter
control valve (51)112
electrically operated (55)52
Seed density
cottonseed (63)63
Seed deterioration (58)107
clover, crimson (52)154; (55)66
corr (55)95; (63)63
soybeans (60)149,158; (61)41,112
vigcr tests (50)125
Seed development
cottonseed (55)156
nasturtium (51)78
rice (60)188
Seed dividers
purity analysis,
pasture mixture (63)59
Seed dormancy (see also dormancy)
ryegrass,
committee report (52)43
Seed extracts (58)82
Seed identification
HCL solution (60)99
Seed legislation
Canadian laws (51)172
Seed-like structures
identification (65)102
Seed longevity
fir, noble (63)161
Seed markers
invisible (57)77
Seed maturation
cotton (55)154
rice (60)188
Seed moisture content
beans, snap (55)110
freeze-drying (65)159
Seed performance
protein content,
wheat (63)106
Seed processing
tree seeds (65)155
Seed production
vegetable seeds,
germination of (51)125
Seed quality
barley (51)64
cottonseed (63)63
damaged seedcoats (64)102
soybeans (64)97
hila discoloration
soybeans (64)115
Seed quality (continued)
small grains (51)64
soybeans (60)158
tetrazolium tests (56)70
vigor selection (65)90

Seed Research Council
American (50)57

Seed size
alfalfa (50)105
cabbage and turnip (63)117
cottonseed (55)159
legumes,
viability (58)128
peanuts,
metabolic activity (61)73
seed deterioration,
peanut seed (60)104
wheat,
protein content (63)106
vigor tests (65)122

Seed-soil relationships
field germination (55)128

Seed source
ash (65)60
clover (65)55
docks (50)112
effect on seed weight,
needlegrass (53)70
pine, red (63)95
seed characteristics,
canarygrass (50)87
soybeans (64)102
spruce, Canadian white (64)72,77
vigor (50)130

Seed storage
cantaloupe (63)83
clover, crimson (55)66
corn (55)92
crambe seeds (63)148
crownvetch (62)109
lettuce seed,
vacuum and inert gas (52)116
fir, noble (63)161
dimorphotheca and osteospermum (57)67
mechanical damage,
alfalfa (50)105
mountainmahogany (63)133
rice seeds (63)155
safflower seeds (64)126
vegetable seeds,
freeze-drying (65)159

Seed swelling (55)109

Seed treatments
alfalfa (57)66
assays for (52)28; (55)104; (58)37
corn (54)93
cold tests (50)181
detection (52)28; (53)21; (56)21
field emergence,
soybeans (64)80
flower seeds (54)89
germination,
fir species (59)148
insecticide (63)206
list of available materials (53)221
oats (56)142
small grains,
alternatives to chemicals (52)127
coloration of (58)118
seedling vigor of (59)141
sorghum (52)143
soybeans (60)133; (64)80
subcommittee report (53)21
uniformity (58)118

Seed testing
equipment,
new kinds (52)89
future (57)100; (58)63
modernization (52)97
opportunities (58)63

Seed test results
seedling rate determination (52)123
uniformity between labs (51)76

Seed tolerance
stress treatments (54)32

Seed viability
definition (53)190
vigor selection (65)90

Seed vigor
cabbage and turnip,
seed size (63)117
concept of (50)124
deteriorated seed (53)190
peas, garden (30)130
peanut seed (60)110
rice seed (63)155
sorghum (63)135
soybeans (61)58
testing (50)124
various tests (50)126
Seed vigor tests
review (65)109

Seed weight
adenosine triphosphate levels (62)119
cotton (60)146
lettuce (60)175
seed source,
canarygrass (50)89
needlegrass (53)70
soybeans (64)102

Seed yields
growth selection (65)90

Seedling rate
determination of,
seed test results (52)123

Seedling emergence
peroxide (65)147

Seedling growth rate
canarygrass (50)87
deteriorated seed (56)52
orchardgrass (62)135
respiration rate
corn (55)131
stored seed,
corn (63)33
wheat,
seed protein content (63)106

Seedling length
clover, crimson (55)68
soybeans (60)149

Seedling performance
cabbage and turnip,
seed size (63)117

Seedling-rotting fungi
soybeans (60)154

Seedling stage
variety identification
barley (60)71
oats (58)98
wheat (59)134

Seedling vigor
corn (54)41; (56)95
glutamic acid decarboxylase activity,
corn (54)100
lettuce seeds (62)116
small grains,
seed treatments (59)141
soybeans,
indices (59)73; (60)158
variety interactions,
soybeans (59)73

Seedling survival
spruce, Canadian white (64)72

Seedling transfer
ryegrass,
fluorescence (62)149

Sealed storage
soybeans (53)215

Secretary's report
(50)11; (51)11; (52)13; (53)10;
(54)10; (55)12; (56)13; (57)13;
(59)10; (60)12; (61)9; (62)9;
(63)10; (64)9; (65)10

Sedges
tetrazolium test (57)107

Selection equipment
cottonseed (60)138

Selling seed testing (50)48

Sensitive plant
germination of (52)140

Sequential analysis
noxious weeds (62)58

Sero-diagnosis
barley, stripe mosaic (57)132

Single florets
bromegrass, smooth (60)90
wheatgrass, tall (59)91
wheatgrass, western (60)96
Sizing
peanut seed (60)116

Shoot length
vigor tests,
pea seeds (57)144

Short cut methods
tetrazolium (50)153

Shrubs
germination (60)197

Slant roll tests
beans (50)78; (55)119

Small grains
damping-off disease (58)111
deterioration of seed,
tetrazolium (58)107
fungi of seeds (52)150; (58)111
germination of;
dry heat, ethylene oxide,
and vitamins (52)127
treated seeds (54)32; (58)118
packaging,
ethylene oxide (51)174
seed treatments
coloration (58)118
seed-borne fungi (50)144
seedling vigor
seed treatments (59)141

Smartweed
germination (62)94
dormancy (62)98

Smut
barnley (52)94
small grains (59)141

Smut balls
identification (65)105

Snakehead seedlings
beans (50)83

Soaking time
bitterbrush (60)127
germination,
beans (65)149

Soaking treatments
breaking dormancy,
rice (54)41

Society Commercial Seed Technologists
(50)48; (51)63

Sodium chloride
orchardgrass (62)141

Sodium nitrate
Indian ricegrass (60)226

Soil divider
purity analysis (55)165

Soil fertility
germination,
mountainmahogany (63)126

Soil-sampler
bromegrass (62)73
chaffy grasses (62)76
pasture mixtures (63)59

Soil tests for vigor
other vigor tests (58)90

Sorghum
accelerated aging (63)135
Alternaria tenuis (69)82
anthesis (63)135
dormancy (52)169; (53)107
field performance (63)135
germination,
gamma-irradiated seeds (57)148
seed fungi (52)143; (59)82
seed vigor tests (50)128

Southern corn leaf blight
detection (61)119
greenhouse studies (61)123

South Dakota blower
bluegrass, Kentucky (51)194
clover, crimson (55)31
exhaust system (54)82

Sowthistle, perennial
noxious weed seeds (52)102
Soybeans
accelerated aging of (60)152,158; (61)41,112; (65)112
amino acids (60)116; (61)158
cold test (50)118
cultivars of (64)115
deterioration (60)158; (61)41; (64)63
field emergence,
fungicides (64)80
germination (50)137
damaged seedcoats (64)97
peroxide (65)147
hila discoloration (64)115
mechanical damage (53)215; (64)97
root rot resistance test (57)130
physiology of (61)58
seed deterioration,
field environment (64)63
seed quality (61)58
seed treatments (64)80
seedcoat,
thickness of (64)102
seedling vigor,
indices (59)73
storage effects (53)215
tetrazolium tests (61)112
variety identification (57)121
vigor (59)73; (60)49
water damage (61)112

Spacing of seeds on blotters
sweetclover (53)119

Species characteristics
wheatgrass (55)40

Species identification
Agropyron (53)187
Brassica (53)180

Specific gravity
Bahiagrass (54)78
legume seeds
viability (58)128

Speed of germination
alfalfa seed (53)144
orchardgrass (62)143
sorghum (63)138
vigor test (65)111

Spike characteristics
wheatgrass (66)37,88

Spikelets
foxtail, giant (61)85

Spinach seeds
field germination (57)157
lab germination (53)51

Sporocarps
water fern (52)100

Sporogenesis
Glomerella cingulata (59)82
seed-borne fungi (59)87

Spruce
germination (51)165; (64)129
dormancy (64)72

Stain patterns
tetrazolium,
cliffrose (63)69

Staining
Agropyron seeds (53)188
crownvetch, fast green (62)109

Standard samples
bluegrass (53)161

Standardization laboratory
potential use (52)65

Standardization of seed testing methods
American seed trade interest (52)70
commercial analysts (52)73
importance (52)59
research laboratory (52)60
official analysts needs (52)75

Starch content
wheat,
seed protein content (63)100

Statistical techniques
germination resistance (59)58
noxious weed seeds (62)58
purity analysis
blowing methods (50)68
noxious weed seeds (62)43,49
uniform blowing method,
Bahiagrass (55)61
Sterilants
packaging
ethylene oxide (51)174

Stomata
variety identification
bluegrass, Kentucky (59)124; (60)71,80

Storage of seeds
bluegrass, Kentucky (55)43
canarygrass, reed (57)124
cantaloupe (63)83
clover, crimson (55)67
corn (63)33
crambe (63)148
dormancy effect (54)41
fir, noble (63)161
fungi, effects (57)141
hemp and kenaf (53)210
lettuce (52)116
orchardgrass (62)145
peanuts (58)58; (61)79
prediction of,
corn (55)92
safflower (64)120
seed deterioration,
peanuts (60)104
soybeans (53)215; (61)41

Stratification
germination effects (57)89
pine (56)89
light interactions (53)124

Stress tests
cereals (59)58
seed vigor (50)126
vigor testing (65)112

Style requirements
papers and reports (53)237;
(54)110; (55)175

Subsampling
bluegrass, Kentucky (62)68
dividers (62)76
glass seed mixtures,
Boerner divider (52)47
purity analysis
bromegrass (62)73
dividers (55)142
seed dividers,
pasture mixtures (63)59

Substrate
cold tests,
corn (60)181
germination
Indian ricegrass (60)226
moisture control,
germination (51)155

Substrate moisture level
germination (51)155
spruce (64)129
sweetgum (65)88
sand versus slant rolls,
beans (52)135

Sudangrass
speed of germination (53)144

Sugarbeet seed
germination of (56)130; (57)45
peroxide (60)213
quicker tests (60)213

Sugar exudation
field emergence,
peas (58)70

Sugars
pea seed (63)51
soybeans (60)158; (61)58

Sulfuric acid
dormancy
Dyer's greenweed (62)154
germination
geranium (61)105
shrubs (60)197
smartweed (62)94
hard seed,
sensitive plant (52)140

Sumac, skunkbush
germination of (60)203

Sweetclover
abnormal seedlings (53)112
germination (53)119
varietal purity (59)33

Sweetgum
germination (62)87; (65)88
Sycamore germination (62)84
Systemic fungicides small grains (59)141
Synthesis of enzymes amylase (60)224
Tansy ragwort noxious weeds, Canada (51)172
Taxonomy moonflower, purple (59)116 nomenclature (56)172 Vicia tribe (60)48
Techniques increasing speed of germination (53)144
Test duration ryegrass, fluorescence (62)149 Dyer's greenweed (62)156
Testing modernization (52)97 aids (60)100
Testing environment American sycamore (62)84
Tetrazolium tests aged seed (56)71 ash (65)60 cliffrose (63)67 clover, crimson (51)151 corn (57)138 cottonseed (51)99; (59)74; (60)100 crownvetch (62)109 deterioration of seed (58)107 diagnostic test (56)70 firm seed, range grasses (53)100 flaxseed (51)141 freeze injury (57)138 germination (51)125 interpretation of (56)70 mechanical damage, alfalfa (50)103 oak, cherrybark (64)109 peanut seeds (60)104 pine, longleaf (65)84
Tetrazolium tests (continued) preparation of seeds (60)100 sedges (57)109 seed quality (51)127; (53)190; (56)70 seed viability (53)191 seedling vigor, soybeans (59)73 soybeans (61)112 tree seed (54)66 vigor tests (65)122 wheatgrass, western (56)110
Temperature bluegrass, Kentucky (60)219 cold tests (50)119 dormancy breaking peanut seeds (55)123 dormancy effect rice (54)41 germination ash (65)60 beans (50)81; (55)110 cottonseed (50)97; (52)104; (53)80 (56)74 crambe seed (55)47,171 daisy, Livingston (60)123 fescue (51)118 flower seeds (55)82 geranium (61)105 hawkweed and cinquefoil (59)154 impatiens (56)139 Indian ricegrass (60)226 kochia (53)45 lettuce (60)167 lesquerella (56)148 millet, Japanese (60)132 needlegrass (53)74 orchardgrass (53)92; (62)138 peanuts (58)58 pine (56)74,89 sensitive plant (52)140 soybean seed (53)215 spinach (53)51 spruce (Picea) (51)165 sweetgum (62)87 sycamore, American (62)84 wheat (63)106 germinator control (56)38 heading date, ryegrass (54)84 light interactions (53)124 impatiens (56)139 pine (63)76 spruce (63)76
Temperature (continued)
ryegrass, fluorescence (62)149
seed storage
bluegrass, Kentucky (55)45
canarygrass, reed (57)127
cantaloupe (63)83
crambe seeds (63)148
dimorphotheca and osteospermum (57)69
fir, noble (63)161
peanuts (58)58
safflower seeds (64)120
stratification interaction
bitterbrush (57)89
pine (56)89
tetrazolium staining
cliffrose (63)73
thermogradient plate
crambe seed (59)44
description (59)44

Thickness of seed
variety identification (56)101

Thiourea
germination
bitterbrush (60)127
millet (51)93
needlegrass (53)74
shrubs (60)197

Thiram
assay for (55)107
field emergence, soybeans (63)80
germination, slash pine (62)91
pine (62)91
small grains (50)150

Time
required for purity analysis
bromegrass, smooth (60)90
wheatgrass, tall (59)93

Tiller number
sorghum (63)140

Tillering
variety identification, corn (50)64

Timothy
cultivar identification (59)34

Tolerances
ethylene oxide (51)174
germination
variation among laboratories (51)87
noxious weed seeds (62)49
purity analysis (50)60
noxious weed seeds (62)43
weed seeds
estimates (51)82

Tomato seeds
longevity (56)107

Tomography
X-ray technique (64)94

2,4-dichlorophenoxyacetic acid contamination
rapeseed (62)130

Training
seed analysts (57)86,100

Treasurer's report (50)11; (51)12;
(52)14; (53)11; (54)11; (55)13;
(56)14; (57)14; (58); (59)11;
(60)13; (61)10; (62)10; (63)12;
(64)10; (65)11

Treated seed
assays (55)104
health protection (52)38
microbiological assay, rye (51)114
inspection station (55)76
purity (55)76

Tree seeds
abnormal seedlings (57)96
collection of (65)155
tetrazolium tests (54)66
X-ray (57)96

Triticum
CCC effects (56)113

Triticale
germination (59)18
pre-germination (59)58

Trueness-to-variety (50)63
nomenclature (56)175

Turnip
seedling performance,
seed size (63)117
species identification (53)180
Uniformity
seed test results, laboratories compared (51)76

Uniform blowing method
Bahia grass, Pensacola (55)58
bluegrass (59)22

Umbelliferone
crownvetch (65)41

Vacuum
seed storage
lettuce seeds (52)116

Vacuum boiling technique
purity analysis, grass seeds (54)66

Variation
germination, tolerances (51)87

Variation among analysts
purity analysis (53)91
sweetclover (53)112

Variety identification
beans, field (56)99
bluegrass, Kentucky (58)46
leaf epidermis (59)124; (60)79
chromatography (57)120
clover, red (64)90
oats (58)98
seedling stage (59)134
barley (60)71
wheat (59)134
wheat (59)131
phenol test (54)22

Varietal mixtures
wheat,
phenol oxidase (65)143

Varietal purity
beans, field (56)99
bluegrass, Kentucky (52)53; (58)46
committee report (53)37
corn (50)63
field crops (57)120
lettuce seed (62)116
oats (58)98,125
soybeans (57)130

Variety testing
field tests (50)63

Vegetable seeds
freeze-drying (65)159
production (51)125

Velvet roll separator
alfalfa (65)75

Vetch
characteristics (56)166
key to species (60)48

Verbena
germination,
moisture sensitivity (53)96

Viability
clover, crimson (55)30
compared to germinability (58)63
crownvetch (62)101,109
firm seeds (53)100
legumes (50)109
physical properties (58)128
pea seed (63)51
peanut seed (61)68
physical properties of seed (58)128
pine (58)76
longleaf (65)84
seed storage,
fir, noble (63)161
small-seeded legumes (50)109
smartweed (62)98
storage effects,
soybeans (53)215
tree seed,
tetrazolium tests (54)66
X-ray technique (64)94
tree seeds (57)98

Vigor
alfalfa seed (57)60
beans (65)91
cereals (59)58,71
clover, crimson (52)154
cottonseed (55)97; (60)138
corn (54)50; (55)131; (56)95; (57)138; (63)33
deteriorated seed (53)190
soybeans (64)63
glutamic acid decarboxylase activity
corn (54)100
indices
corn (54)50
soybeans (60)149
Vigor (continued);
irradiated seed (57)148
lettuce (60)167,173
mechanical damage
cottonseed (58)97
oak (64)109
onion seeds (52)133
pea seed (57)144; (63)51
pine, red (63)96
respiration rates
corn (55)131; (56)97
rice (52)162; (63)155
seed specific gravity
rice seed (52)162
seed weight relationship (52)123
sorghum (63)135
soybeans (59)73; (60)149; (61)41
spinach (57)157
tetrazolium tests (51)125

Vigor tests
bean, lima
seed bleaching (54)26
clover, crimson (52)154
committee report (52)53; (53)37
compared (58)89
conductivity (65)90
cottonseed (51)99
enzymes present (60)105
general concept (50)124,131
glutamic acid decarboxylase activity (54)100
oak, cherry bark (64)109
review (65)109
respiration
pea seed (57)144
rice (52)162
tetrazolium use (51)99
total dry matter (60)149

Vitamins
effect on germination,
small grains (52)127

Voltage fluctuations
blowing point (51)194

Volume
cottonseed (60)138

Water absorption
pea seed (63)51

Water damage
alfalfa (50)105
soybeans (61)112

Water fern
sporocarps in seed samples (52)100

Water injuries
tetrazolium tests (60)100

Water permeable region
beans (55)128

Water soak test for vigor
other vigor tests (58)92

Water temperature
snapbeans (55)110

Water vapor
saturated air for germination,
mesquite (53)62

Watermelon seed
dormancy (58)80

Weed seeds
estimates
tolerances (51)82
viability (53)177

Weight
cottonseed (60)138

Western shrub species
germination (60)197

Wetting and drying treatments
orchardgrass (62)135

Wheat
germination, (59)58
gamma-irradiated seeds (57)148
quicker tests (60)213
speed of (53)144
protein content,
seed performance (63)106
seed quality (51)64
seed treatment
alternatives (52)127
coloration of (58)118
soft white winter
CCC (56)113
variety identification (61)91
seedling stage (59)134
phenol test (54)22; (65)143
tetrazolium (51)125
Wheatgrass
  germination,
  hulless seeds (53)165
  spike characteristics (55)37,88

Wheatgrass, tall
  dormancy (56)116
  purity analysis (59)91

Wheatgrass, western
  Anguina on (53)208
  dormancy (56)110
  germination (53)55
  nematodes (53)208
  purity analysis (60)95

Width of seed
  variety identification,
  bluegrass, Kentucky (58)46

Wild oats
  speed of germination (53)144

World Seed Year
  Canada (51)66
  United States (51)68

X-ray techniques
  tomography (64)94
  vigor tests (65)115
  tree seeds (57)96
  sugarbeet seed (57)45

Yield
  beans (65)92
  cottonseed (63)63
  lettuce (60)175
  sorghum (63)135,140

Zinnia
  fungi of (54)87
<table>
<thead>
<tr>
<th>Botanical name</th>
<th>Common name</th>
<th>Germination</th>
<th>Purity</th>
<th>Identification</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abelmoschus esculentus</td>
<td>okra</td>
<td>(51)174</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abies balsamea</td>
<td>fir, balsam</td>
<td>(59)148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abies fraser</td>
<td>fir, fraser</td>
<td>(59)148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abies procera</td>
<td>fir, noble</td>
<td>(63)161</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abies spp.</td>
<td>fir</td>
<td>(54)66</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Achillea ptarmica</td>
<td>the pearl</td>
<td>(55)84</td>
<td>(57)170</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aesculus pavia</td>
<td>buckeye, red</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agropyron desertorum</td>
<td>wheatgrass, crested</td>
<td>(62)76</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agropyron elongatum</td>
<td>wheatgrass, tall</td>
<td>(53)165</td>
<td>(59)91</td>
<td>(55)88</td>
<td></td>
</tr>
<tr>
<td>Agropyron intermediun</td>
<td>wheatgrass, intermediate</td>
<td>(53)165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agropyron repens</td>
<td>quackgrass</td>
<td>(55)141</td>
<td>(53)188</td>
<td>(53)208</td>
<td></td>
</tr>
<tr>
<td>Agropyron smithii</td>
<td>wheatgrass, western</td>
<td>(53)100</td>
<td>(55)110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agropyron trachycaulum</td>
<td>wheatgrass, slender</td>
<td>(53)188</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agropyron trichophorum</td>
<td>wheatgrass, hairy</td>
<td>(61)99</td>
<td>(55)37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrostemma coronaria</td>
<td>campion, rose</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrostis alba</td>
<td>redtop</td>
<td>(52)23</td>
<td>(52)61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agrostis tenuis</td>
<td>bentgrass</td>
<td>(51)155</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allium cepa</td>
<td>onion</td>
<td>(52)20</td>
<td>(53)27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allium vineale</td>
<td>onion, wild</td>
<td>(54)32</td>
<td>(65)162</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alopecurus pratensis</td>
<td>foxtail, meadow</td>
<td>(62)76</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amaranthus retroflexus</td>
<td>pigweed, redroot</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amelanchier utahensis</td>
<td>service-berry, desert</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anagalis arvensis</td>
<td>pimpernel</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angalis coerulea</td>
<td>pimpernel</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angalis grandiflora</td>
<td>pimpernel</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anchusa officinalis</td>
<td>bugloss</td>
<td>(54)87</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andropogon furcatus</td>
<td>bluestem, big</td>
<td>(57)81</td>
<td>(58)85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andropogon hallii</td>
<td>bluestem, sand</td>
<td>(58)85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andropogon scoparius</td>
<td>bluestem, little</td>
<td>(53)100</td>
<td>(52)25</td>
<td>(57)77</td>
<td>(58)85</td>
</tr>
<tr>
<td>Andropogon spp.</td>
<td>bluestem</td>
<td>(51)23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthemis sancti-johannis</td>
<td>camomile, St. Johns</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthemis tinctoria</td>
<td>camomile, golden</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apium graveolens</td>
<td>celery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquilegia alpina</td>
<td>columbine, alpine</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arachis hypogaea</td>
<td>peanut</td>
<td>(55)121</td>
<td>(58)58</td>
<td>(58)107</td>
<td>(61)26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)148</td>
<td>(58)107</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(60)104</td>
<td>(61)68</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(61)73</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(61)78</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Arctotis grandis</td>
<td>daisy, African lilac</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armeria formosa</td>
<td>armeria</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asclepias tuberosa</td>
<td>milkweed, butterfly</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asparagus plumosus</td>
<td>asparagus, fern</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asparagus sprengeri</td>
<td>asparagus, sprenger</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aster spp.</td>
<td>aster</td>
<td>(53)144</td>
<td></td>
<td></td>
<td>(52)116</td>
</tr>
<tr>
<td>Avena fatua</td>
<td>oat, wild</td>
<td>(51)174</td>
<td>(55)80</td>
<td>(58)98</td>
<td>(51)174</td>
</tr>
<tr>
<td>Avena sativa</td>
<td>oats</td>
<td>(52)127</td>
<td>(55)141</td>
<td>(60)28</td>
<td>(54)100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)32</td>
<td></td>
<td>(61)28</td>
<td>(56)143</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(57)75</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(57)120</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(58)111</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(58)118</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(58)125</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(59)82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(59)141</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(50)144</td>
</tr>
<tr>
<td>Baileya pleniradiate</td>
<td>bailey, desert</td>
<td>(63)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barbarea vulgaris</td>
<td>wintercress, bitter</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Berteroa incana</td>
<td>olyssum, hoary</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beta vulgaris</td>
<td>beet, sugar</td>
<td>(54)32</td>
<td></td>
<td></td>
<td>(51)174</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)45</td>
<td></td>
<td></td>
<td>(65)96</td>
</tr>
<tr>
<td>Bignonia spp.</td>
<td>bignonia</td>
<td>(51)144</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bouteloua curtipendula</td>
<td>grama, sideoats</td>
<td>(51)174</td>
<td>(55)18</td>
<td>(53)183</td>
<td>(53)183</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(56)61</td>
<td></td>
<td>(55)148</td>
<td>(56)61</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(62)77</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(62)76</td>
</tr>
<tr>
<td>Bouteloua gracilis</td>
<td>grama, blue</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brachycome iberidifolia</td>
<td>daisy, Swan River</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brassica campestris</td>
<td>rape</td>
<td>(53)124</td>
<td></td>
<td></td>
<td>(65)75</td>
</tr>
<tr>
<td>Brassica juncea</td>
<td>mustard</td>
<td>(53)180</td>
<td></td>
<td></td>
<td>(62)131</td>
</tr>
<tr>
<td>Brassica napus</td>
<td>rutabaga</td>
<td>(53)124</td>
<td></td>
<td></td>
<td>(51)174</td>
</tr>
<tr>
<td>Brassica nigra</td>
<td>mustard, black</td>
<td>(53)124</td>
<td></td>
<td></td>
<td>(53)180</td>
</tr>
<tr>
<td>Brassica oleracea</td>
<td>cabbage</td>
<td>(54)32</td>
<td></td>
<td></td>
<td>(51)174</td>
</tr>
<tr>
<td>Brassica rapa</td>
<td>turnip</td>
<td>(53)180</td>
<td></td>
<td></td>
<td>(63)117</td>
</tr>
<tr>
<td>Bromus catharticus</td>
<td>rescue grass</td>
<td>(51)23</td>
<td></td>
<td></td>
<td>(63)117</td>
</tr>
<tr>
<td>Bromus inermus</td>
<td>bromegrass, smooth</td>
<td>(51)155</td>
<td>(60)90</td>
<td>(63)59</td>
<td>(51)174</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)79</td>
<td></td>
<td></td>
<td>(62)76</td>
</tr>
<tr>
<td>Browallia elata</td>
<td>browallia</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Browillia spp.</td>
<td>browillia</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Buchloe dactyloides</td>
<td>buffalograss</td>
<td>(51)23</td>
<td>(56)120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buphthalmum salicifolium</td>
<td>willowleaf, oxeye</td>
<td>(57)170</td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calceolaria spp.</td>
<td>calceolaria</td>
<td>(57)170</td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calendula officinalis</td>
<td>calendula</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Callistephus chinensis</td>
<td>aster, Chinese</td>
<td>(54)32</td>
<td></td>
<td>(54)87</td>
<td></td>
</tr>
<tr>
<td>Camelina microcarpa</td>
<td>false flax, small-seeded</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cannabis sativus</td>
<td>hemp, wild</td>
<td>(53)210</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capsella bursa-pastoris</td>
<td>shepherd's-purse</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capsicum frutescens</td>
<td>pepper</td>
<td>(54)32</td>
<td></td>
<td>(65)162</td>
<td></td>
</tr>
<tr>
<td>Cardiospermum halicacebsum</td>
<td>balloonvine</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carex spp.</td>
<td>sedge</td>
<td>(57)107</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carthamus tinctorius</td>
<td>safflower</td>
<td>(65)105</td>
<td>(64)120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caryia illinoensis</td>
<td>pecan</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caryia ovata</td>
<td>hickory, shagbark</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceanothus integerrimus</td>
<td>ceanothus, deerbrush</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceanothus sanguineus</td>
<td>ceanothus, redstem</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casuarina spp.</td>
<td>beefwood</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceanothus velutinus</td>
<td>ceanothus, snowbrush</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cerastium biebersteini</td>
<td>snow-in-summer</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cerastium tomentosum</td>
<td>snow-in-summer</td>
<td>(57)170</td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cercocarpus ledifolius</td>
<td>mountainmahogany, curlleaf</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cercocarpus montanus</td>
<td>mountainmahogany, true</td>
<td>(60)197</td>
<td>(63)126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cereus giganteus</td>
<td>cactus, saguaro</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choerophyllum dasycarpum</td>
<td>Queen Anne's lace</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cicer arietinum</td>
<td>pea, chick</td>
<td>(57)170</td>
<td>(60)48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cirsiurn arvense</td>
<td>thistle, Canada</td>
<td>(52)102</td>
<td>(55)141</td>
<td>(59)82</td>
<td></td>
</tr>
<tr>
<td>Citrullus vulgaris</td>
<td>watermelon</td>
<td>(58)80</td>
<td>(65)38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coleus blumei</td>
<td>coleus, common</td>
<td>(55)88</td>
<td>(57)170</td>
<td>(62)17</td>
<td></td>
</tr>
<tr>
<td>Convolvulus arvensis</td>
<td>bindweed, field</td>
<td>(59)101</td>
<td></td>
<td></td>
<td>(59)101</td>
</tr>
<tr>
<td>Convolvulus hermannioides</td>
<td>bindweed</td>
<td>(59)101</td>
<td></td>
<td></td>
<td>(59)101</td>
</tr>
<tr>
<td>Convolvulus incanus</td>
<td>bindweed, hoary</td>
<td>(59)101</td>
<td></td>
<td></td>
<td>(59)101</td>
</tr>
<tr>
<td>Convolvulus sepium</td>
<td>bindweed, hedge</td>
<td>(59)101</td>
<td></td>
<td></td>
<td>(59)101</td>
</tr>
<tr>
<td>Cornus florida</td>
<td>dogwood, flowering</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cornus stolonifera</td>
<td>dogwood, red-osier</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coronilla varia</td>
<td>vetch, crown</td>
<td>(62)17</td>
<td>(62)109</td>
<td>(60)48</td>
<td>(51)174</td>
</tr>
<tr>
<td>Crossandra infundibuliformis</td>
<td>crossandra</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Cowania mexicana</td>
<td>cliffrose</td>
<td>(63)67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cowania stansburiana</td>
<td>cliffrose, Stansbury</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crambe abyssinica</td>
<td>crambe</td>
<td>(55)47</td>
<td>(55)169</td>
<td>(59)44</td>
<td>(59)51</td>
</tr>
<tr>
<td>Crataegus mollis</td>
<td>hawthorne, downy</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crossandra infundibuliformis</td>
<td>crossandra</td>
<td>(55)88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cucumis melo</td>
<td>muskmelon</td>
<td></td>
<td>(59)82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cucumis sativus</td>
<td>cucumber</td>
<td></td>
<td>(59)82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cucurbita pepo</td>
<td>pumpkin</td>
<td>(54)32</td>
<td>(54)132</td>
<td>(57)67</td>
<td></td>
</tr>
<tr>
<td>Cucurbita spp.</td>
<td>gourd</td>
<td>(51)155</td>
<td>(52)61</td>
<td>(54)73</td>
<td></td>
</tr>
<tr>
<td>Cuscuta spp.</td>
<td>dodder</td>
<td></td>
<td>(54)32</td>
<td>(56)61</td>
<td>(62)135</td>
</tr>
<tr>
<td>Cynodon dactylon</td>
<td>Bermudagrass</td>
<td>(52)66</td>
<td>(53)20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dactylus glomerata</td>
<td>orchardgrass</td>
<td>(51)155</td>
<td>(52)61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daucus carota</td>
<td>carrot</td>
<td>(54)32</td>
<td></td>
<td>(51)174</td>
<td></td>
</tr>
<tr>
<td>Deschampsia caespitosa</td>
<td>hairgrass, tufted</td>
<td>(53)91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dianthus caryophyllus</td>
<td>carnation</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dichondra repens</td>
<td>dichondra</td>
<td>(52)73</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dictamus albus</td>
<td>dittany, gasplant</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Didiscus coerulea</td>
<td>blue lace flower</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diplophlothea sinuata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dolichos lablab</td>
<td>hyacinth, bean</td>
<td>(55)88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doronicum caucasicum</td>
<td>Caucasian leopardbane</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echinacea purpurea</td>
<td>daisy, gloriosa</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echinocloa crusgalli var. frumentacea</td>
<td></td>
<td>(60)132</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echinops nitro</td>
<td>globothistle, small</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Episcia spp.</td>
<td>flame-violets</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eragrostis spp.</td>
<td>lovegrass</td>
<td>(53)100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eremochloa ophiuroides</td>
<td>centipedegrass</td>
<td>(51)47</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erigeron speciosus</td>
<td>fleabane, Oregon</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eucalyptus deglupta</td>
<td>eucalyptus</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eucalyptus grandis</td>
<td>eucalyptus</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Euphorbia heterophylla</td>
<td>euphorbia, painted</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fagopyrum esculentum</td>
<td>buckwheat</td>
<td>(51)174</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferocactus wislizens</td>
<td>cactus, barrel</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Festuca arundinacea</td>
<td>fescue, alta</td>
<td>(63)59</td>
<td>(55)164</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Festuca ovina</td>
<td>fescue, tall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Festuca myuros</td>
<td>fescue, rattail</td>
<td>(51)118</td>
<td></td>
<td></td>
<td>(55)141</td>
</tr>
<tr>
<td>Festuca octoflora</td>
<td>fescue, six-weeks</td>
<td>(51)108</td>
<td></td>
<td></td>
<td>(52)77</td>
</tr>
<tr>
<td>Festuca rubra</td>
<td>fescue, red</td>
<td>(51)155</td>
<td></td>
<td></td>
<td>(51)108</td>
</tr>
<tr>
<td>Fragaria virginiana</td>
<td>strawberry</td>
<td>(53)124</td>
<td></td>
<td></td>
<td>(53)124</td>
</tr>
<tr>
<td>Fraxinus americana</td>
<td>ash, white</td>
<td>(65)60</td>
<td></td>
<td></td>
<td>(65)60</td>
</tr>
<tr>
<td>Fuchsia spp.</td>
<td>fuchsia</td>
<td>(64)32</td>
<td></td>
<td></td>
<td>(64)32</td>
</tr>
<tr>
<td>Gazania splendens</td>
<td>gazania, pied</td>
<td>(55)84</td>
<td></td>
<td></td>
<td>(55)84</td>
</tr>
<tr>
<td>Genista tinctoria</td>
<td>Dyer's greenweed</td>
<td>(62)154</td>
<td></td>
<td></td>
<td>(62)154</td>
</tr>
<tr>
<td>Gerbera jamesoni</td>
<td>daisy, transvaal</td>
<td>(57)170</td>
<td></td>
<td></td>
<td>(57)170</td>
</tr>
<tr>
<td>Geum turbinatum</td>
<td>avens</td>
<td>(53)91</td>
<td></td>
<td></td>
<td>(53)91</td>
</tr>
<tr>
<td>Gladiolus spp.</td>
<td>gladiolus</td>
<td>(57)170</td>
<td></td>
<td></td>
<td>(57)170</td>
</tr>
<tr>
<td>Glycine max</td>
<td>soybean</td>
<td>(50)137</td>
<td>(65)103</td>
<td>(57)120</td>
<td>(53)221</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(60)149</td>
<td>(60)29</td>
<td></td>
<td>(57)130</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(60)158</td>
<td>(64)115</td>
<td></td>
<td>(59)73</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64)80</td>
<td></td>
<td></td>
<td>(59)82</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64)97</td>
<td></td>
<td></td>
<td>(61)26</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(65)95</td>
<td></td>
<td></td>
<td>(61)41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(65)148</td>
<td></td>
<td></td>
<td>(61)58</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(61)113</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(64)102</td>
</tr>
<tr>
<td></td>
<td>cotton</td>
<td>(50)97</td>
<td></td>
<td></td>
<td>(55)154</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(52)104</td>
<td></td>
<td></td>
<td>(58)107</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(53)80</td>
<td></td>
<td></td>
<td>(63)63</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(55)97</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(56)74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(60)138</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grevillea robusta</td>
<td>silk-oak</td>
<td>(64)30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helenium autumnale</td>
<td>sneezeweed</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heliopsis scabra</td>
<td>heliopsis</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hesperis matronalis</td>
<td>acroclinium</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>violet, dames</td>
<td>(55)88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hibiscus cannabinus</td>
<td>kenaf</td>
<td>(53)210</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hieracium pilosella</td>
<td>mouseear hawkweed</td>
<td>(50)134</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hordeum vulgari</td>
<td>barley</td>
<td>(50)141</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(52)127</td>
<td>(56)52</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)32</td>
<td>(56)113</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(59)58</td>
<td>(57)132</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(59)86</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(59)144</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Hunnemannia fumariaefolia</td>
<td>Mexican tulip poppy</td>
<td>(55)88</td>
<td></td>
<td>(57)170</td>
<td>(62)17</td>
</tr>
<tr>
<td>Impatiens holsti</td>
<td>impatiens</td>
<td>(57)170</td>
<td></td>
<td>(56)139</td>
<td>(62)17</td>
</tr>
<tr>
<td>Inula grandiflora</td>
<td>inula, sunflower</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea alba</td>
<td>moonflower, white</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea hederacea</td>
<td>morning glory, ivy-leaved</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea heptaphylla</td>
<td>morning glory</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea lacunosa</td>
<td>morning glory, small white</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea leptophylla</td>
<td>morning glory, bush</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea macrantha</td>
<td>moonflower, white</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea macrorhiza</td>
<td>morning glory</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea pandurata</td>
<td>wild potato-vine</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea pes-caprae</td>
<td>railroad vine</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea sagittata</td>
<td>morning glory</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ipomoea turbinata</td>
<td>moonflower, purple</td>
<td>(59)101</td>
<td></td>
<td>(59)116</td>
<td>(60)26</td>
</tr>
<tr>
<td>Iris kaempferi</td>
<td>iris, Japanese</td>
<td>(55)84</td>
<td></td>
<td>(57)170</td>
<td></td>
</tr>
<tr>
<td>Jacquemontia tammifolia</td>
<td>morning glory, clustered blue</td>
<td>(59)101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Juglans nigra</td>
<td>walnut, black</td>
<td>(64)94</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kalanchoe blossfeldiana</td>
<td>kalanchoe</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kochia scoparius</td>
<td>firecracker</td>
<td>(53)45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lactuca sativa</td>
<td>lettuce</td>
<td>(51)155</td>
<td>(59)32</td>
<td>(51)174</td>
<td></td>
</tr>
<tr>
<td>Lamium amplexicaule</td>
<td>henbit</td>
<td>(53)124</td>
<td>(53)124</td>
<td>(52)116</td>
<td></td>
</tr>
<tr>
<td>Lathyrus angulatus</td>
<td>vetching</td>
<td>(53)124</td>
<td>(60)48</td>
<td>(60)29</td>
<td>(61)26</td>
</tr>
<tr>
<td>Lathyrus aphaca</td>
<td>vetch, yellow</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus hirsutus</td>
<td>pea, rough</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus latifolius</td>
<td>pea, everlasting</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus nissolia</td>
<td>vetching, grass</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus odoratus</td>
<td>pea, sweet</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus pusillus</td>
<td>pea, tiny</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus sphaericus</td>
<td>pea, rough</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus sulphureus</td>
<td>pea, sulfur</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus sylvestris</td>
<td>pea, flat</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus tingitanus</td>
<td>pea, Tangier</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lathyrus tuberosus</td>
<td>pea, earth-nut</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lavatera trimestris</td>
<td>treemallow, herb</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layia elegans</td>
<td>tidy tips</td>
<td>(55)88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lens esculenta</td>
<td>lentil</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lepidium campestre</td>
<td>peppergrass, field</td>
<td>(53)124</td>
<td>(52)102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lepidium densiflorum</td>
<td>peppergrass, common</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lepidium virginicum</td>
<td>peppergrass, Virginia</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>---------------</td>
<td>-------</td>
</tr>
<tr>
<td>Lesquerella spp.</td>
<td>bladderpod</td>
<td>(56)148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Libocedrus decurrens</td>
<td>cedar, California incense</td>
<td>(63)102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lilium regale</td>
<td>lily, regal</td>
<td>(57)170</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linum flavum</td>
<td>flax, golden</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linum grandiflorum</td>
<td>flax, flowering</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linum perenne</td>
<td>flax, perennial</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linum usitatissimum</td>
<td>flax</td>
<td>(51)139</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liriodendron tulipifera</td>
<td>tulip tree</td>
<td>(54)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquidambar styraciflua</td>
<td>gum, sweet</td>
<td>(62)88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lobelia spp.</td>
<td>lobelia, water</td>
<td>(54)32</td>
<td></td>
<td></td>
<td>(52)116</td>
</tr>
<tr>
<td>Lobularia maritima</td>
<td>alyssum</td>
<td>(56)161</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lolium italicum</td>
<td>ryegrass, common</td>
<td>(51)178</td>
<td>43</td>
<td>(53)229</td>
<td></td>
</tr>
<tr>
<td>Lolium multiflorum</td>
<td>ryegrass, annual</td>
<td>(52)43</td>
<td>43</td>
<td>(54)84</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)112</td>
<td></td>
<td></td>
<td>(62)149</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(55)141</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(55)164</td>
</tr>
<tr>
<td>Lolium perenne</td>
<td>ryegrass, perennial</td>
<td>(51)178</td>
<td>43</td>
<td>(54)84</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(52)143</td>
<td>43</td>
<td>(56)47</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(55)141</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(57)117</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(57)120</td>
</tr>
<tr>
<td>Lotus corniculatus</td>
<td>trefoil, birdsfoot</td>
<td>(51)174</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lupinus spp.</td>
<td>lupine</td>
<td>(53)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luzula spikata</td>
<td>woodrush</td>
<td>(53)91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lychnis (Agrostemma)</td>
<td>campion, rose</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lychnis alba</td>
<td>cockle, white</td>
<td>(60)118</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lychnis chalcedonica</td>
<td>Jerusalem cross</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lychnis viscaria</td>
<td>campion, clammy</td>
<td>(54)32</td>
<td></td>
<td></td>
<td>(65)96</td>
</tr>
<tr>
<td>Lycoopersicon esculentum</td>
<td>tomato</td>
<td>(51)155</td>
<td></td>
<td></td>
<td>(56)107</td>
</tr>
<tr>
<td>Lythrum salicaria</td>
<td>loosestrife, purple</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machaeanthera tonacetifolia</td>
<td>daisy, tahoka</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnolia grandiflora</td>
<td>magnolia, southern</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malcolmia maritima</td>
<td>Virginian stocks</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malva neglecta</td>
<td>mallow, running</td>
<td>(55)141</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marsilea mucronata</td>
<td>water fern</td>
<td>(55)56</td>
<td></td>
<td></td>
<td>(52)100</td>
</tr>
<tr>
<td>Martynia proboscidea</td>
<td>devils claws</td>
<td>(64)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matricaria spp.</td>
<td>feverfew</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Medicago orbicularis</td>
<td>alfalfa</td>
<td>(55)141</td>
<td></td>
<td>(55)140</td>
<td>(51)74</td>
</tr>
<tr>
<td>Medicago sativa</td>
<td>alfalfa</td>
<td>(50)101</td>
<td>(53)144</td>
<td>(65)75</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(61)20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melilotus alba</td>
<td>clover, white sweet</td>
<td></td>
<td>(55)141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melilotus indica</td>
<td>clover, sweet</td>
<td>(55)164</td>
<td></td>
<td>(51)55</td>
<td></td>
</tr>
<tr>
<td>Melilotus spp.</td>
<td>clover, sweet</td>
<td>(53)112</td>
<td></td>
<td>(53)119</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(61)20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentha piperita</td>
<td>peppermint</td>
<td>(64)32</td>
<td></td>
<td></td>
<td>(59)114</td>
</tr>
<tr>
<td>Merremia dissecta</td>
<td>morning glory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mesembryanthemum criniflorum</td>
<td>daisy, Livingstone</td>
<td>(60)123</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mimoso pudica</td>
<td>sensitive plant</td>
<td>(52)140</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mimulus tigrinus</td>
<td>tiger monkeyflower</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molucella levis</td>
<td>bells of Ireland</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nemophila naculata</td>
<td>nemophila, spotted</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nicotiana tobacum</td>
<td>tobacco</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nyssa aquatica</td>
<td>tupelo, water</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nyssa sylvatica</td>
<td>tupelo, black</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oryza sativa</td>
<td>rice</td>
<td>(52)162</td>
<td></td>
<td></td>
<td>(60)188</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(53)144</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)41</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oryzopsis niiacea</td>
<td>smilo grass</td>
<td>(51)23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oryzopsis hynemoides</td>
<td>ricegrass, Indian</td>
<td>(53)100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osteospermum ecklonis</td>
<td>calenduleae, South African</td>
<td>(60)216</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)67</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panicum ramosum</td>
<td>millet, browntop</td>
<td>(51)92</td>
<td></td>
<td></td>
<td>(51)74</td>
</tr>
<tr>
<td>Panicum virgatum</td>
<td>switchgrass</td>
<td>(53)100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Papaver nudicaule</td>
<td>poppy</td>
<td></td>
<td></td>
<td></td>
<td>(54)87</td>
</tr>
<tr>
<td>Paspalum dilatatum</td>
<td>dallisgrass</td>
<td>(51)23</td>
<td>(54)73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paspalum nutatum</td>
<td>Bahiagrass</td>
<td>(51)23</td>
<td>(54)73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pastinaca sativa</td>
<td>parsnip, wild</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pelargonium spp.</td>
<td>geranium</td>
<td>(61)105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pennisetum glaucum</td>
<td>millet, pearl</td>
<td>(51)23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroseolini crisspum</td>
<td>parsley</td>
<td></td>
<td></td>
<td></td>
<td>(65)162</td>
</tr>
<tr>
<td>Phalaris arundinacea</td>
<td>canarygrass, reed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phalaris canziensis</td>
<td>canarygrass</td>
<td>(50)87</td>
<td></td>
<td></td>
<td>(51)74</td>
</tr>
<tr>
<td>Phaseolus lunatus</td>
<td>bean, lima</td>
<td></td>
<td></td>
<td></td>
<td>(54)26</td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>-----------------------</td>
<td>---------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>---------</td>
</tr>
<tr>
<td>Phaseolus vulgaris</td>
<td>bean, garden</td>
<td>(50)78</td>
<td>(56)99</td>
<td>(50)76</td>
<td></td>
</tr>
<tr>
<td></td>
<td>bean, field</td>
<td>(52)135</td>
<td>(51)74</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>bean, snap</td>
<td>(53)194</td>
<td>(58)107</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(54)32</td>
<td>(59)82</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(55)110</td>
<td>(63)76</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(61)22</td>
<td>(63)76</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(65)90</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(65)148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phleum pratense</td>
<td>timothy</td>
<td>(51)155</td>
<td></td>
<td>(51)174</td>
<td></td>
</tr>
<tr>
<td>Phlox drummondi</td>
<td>phlox, annual</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picea abies</td>
<td>spruce, Norway</td>
<td>(64)129</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picea engelmannii</td>
<td>spruce, Engelmann</td>
<td>(64)129</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picea excelsa</td>
<td>spruce, Norway</td>
<td>(51)165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picea glauca</td>
<td>spruce, white</td>
<td>(64)72</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64)129</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>spruce, black</td>
<td>(64)129</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>spruce, Colorado blue</td>
<td>(51)165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>spruce</td>
<td>(51)165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picea mariana</td>
<td>pine, canary</td>
<td>(62)16</td>
<td></td>
<td>(57)96</td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, Khasia</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus canariensis</td>
<td>pine, sand</td>
<td>(64)31</td>
<td></td>
<td>(57)96</td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, spruce</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus caribaea</td>
<td>pine, Caribbean</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, bishop</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus clausa</td>
<td>pine, shortleaf</td>
<td>(56)89</td>
<td></td>
<td>(57)96</td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, slash</td>
<td>(62)91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus glabra</td>
<td>pine, spruce</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus hussia</td>
<td>pine, spruce</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus markusii</td>
<td>pine, Markus</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus muricata</td>
<td>pine, bishop</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus palustris</td>
<td>pine, jelecate</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, cluster</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus pinaster</td>
<td>pine, Italian stone</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus radiata</td>
<td>pine, Monterey</td>
<td>(62)16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus resinosa</td>
<td>pine, red</td>
<td>(63)94</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pine, pond</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus strobus</td>
<td>pine, eastern white</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus spp.</td>
<td>pine</td>
<td>(57)161</td>
<td></td>
<td>(57)96</td>
<td></td>
</tr>
<tr>
<td>Pinus taeda</td>
<td>pine, loblolly</td>
<td>(53)124</td>
<td></td>
<td>(58)76</td>
<td>(57)96</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(56)89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinus taiwanensis</td>
<td>pine, Formosa</td>
<td>(62)16</td>
<td></td>
<td>(58)70</td>
<td>(59)82</td>
</tr>
<tr>
<td>Pinus virginiana</td>
<td>pine, Virginia</td>
<td>(53)124</td>
<td></td>
<td>(50)82</td>
<td></td>
</tr>
<tr>
<td>Pismum sativum</td>
<td>pea, garden</td>
<td>(54)32</td>
<td>(60)48</td>
<td>(50)130</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)144</td>
<td>(51)74</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(63)51</td>
<td>(58)70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pismum sativum var. arvense</td>
<td>pea, field</td>
<td>(54)32</td>
<td>(60)48</td>
<td>(59)82</td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Platanus occidentalis</td>
<td>sycamore, American</td>
<td>(57)96</td>
<td>(62)84</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(64)31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Platy codon grandiflorum</td>
<td>balloon flower</td>
<td>(55)84</td>
<td>(57)170</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plumbago capensis</td>
<td>plumbago, cape</td>
<td>(55)84</td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poa pratensis</td>
<td>bluegrass, Kentucky</td>
<td>(50)141</td>
<td>(50)38</td>
<td>(58)46</td>
<td>(59)95</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(51)23</td>
<td>(50)52</td>
<td>(59)124</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(51)155</td>
<td>(50)54</td>
<td>(60)28</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(50)66</td>
<td>(60)79</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(51)33</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(51)36</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(51)60</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(62)68</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(62)76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poa trivialis</td>
<td>bluegrass, rough</td>
<td>(53)85</td>
<td>(53)165</td>
<td>(60)24</td>
<td></td>
</tr>
<tr>
<td>Polygonum pensylvanicum</td>
<td>smartweed, Pennsylvania</td>
<td>(62)94</td>
<td>(62)98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Populus spp.</td>
<td>popular</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potentilla anserina</td>
<td>cinquefoil, silver</td>
<td>(59)154</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potentilla tridentata</td>
<td>cinquefoil, wineleaf</td>
<td>(59)154</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primula spp.</td>
<td>primrose</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prospis juliflora</td>
<td>mesquite</td>
<td>(53)58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulsatilla ladoviciana</td>
<td>crocus, wild</td>
<td>(53)91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purshia glandulosa</td>
<td>bitterbrush, desert</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purshia tridentata</td>
<td>bitterbrush, antelope</td>
<td>(57)89</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(60)127</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(60)197</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrethrum coccineum</td>
<td>daisy, painted</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(62)17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrethrum ptarmicaeeflorum</td>
<td>chrysanthemum, Canary Islands</td>
<td></td>
<td>(64)32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quercus alba</td>
<td>oak, white</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quercus falcata</td>
<td>oak, cherrybark</td>
<td>(64)109</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quercus muehlenbergii</td>
<td>oak, chinkapin</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quercus spp.</td>
<td>oak</td>
<td>(56)82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quercus virginiana</td>
<td>oak, live</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raphanus sativus</td>
<td>radish</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(57)148</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhododendron spp.</td>
<td>rhododendron</td>
<td>(54)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhus trilobata</td>
<td>sumac, skinkbush</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rorippa islandica</td>
<td>yellowwress, marshy</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rudbeckia hirta</td>
<td>rudbeckia</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex acetosa</td>
<td>dock, sour</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex acetosella</td>
<td>sorrel, sheep</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex altissimus</td>
<td>dock, smooth</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Rumex crispus</td>
<td>dock, curly</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex mexicanus</td>
<td>dock, pale</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex obtusifolius</td>
<td>dock, broadleaved</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex orbiculatus</td>
<td>dock, water</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rumex verticillatus</td>
<td>dock, swamp</td>
<td>(50)112</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saintpaulia spp.</td>
<td>violet, African</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scabissa atropurpurea</td>
<td>morning bride</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secale cereale</td>
<td>rye</td>
<td>(51)174</td>
<td>(55)80</td>
<td>(60)28</td>
<td>(50)144</td>
</tr>
<tr>
<td>Sedum acre</td>
<td>sedum, goldmoss</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sedum stenopetalum</td>
<td>wormleaf</td>
<td>(53)91</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sempervivum spp.</td>
<td>hens and chickens</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senecio cruentus</td>
<td>cineraria, common</td>
<td>(57)170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senecio jacobaea</td>
<td>tansy ragwort</td>
<td>(51)172</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setaria faberii</td>
<td>foxtail, giant</td>
<td>(61)85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setaria spp.</td>
<td>foxtail</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shepherdia argentea</td>
<td>buffaloberry, silver</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shepherdia canadensis</td>
<td>buffaloberry, russet</td>
<td>(60)197</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sinapis arvensis</td>
<td>mustard, field</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sinningia speciosa</td>
<td>gloxinia, common</td>
<td>(57)170</td>
<td></td>
<td>(60)99</td>
<td></td>
</tr>
<tr>
<td>Sisymbrium altissimum</td>
<td>mustard, tumbling</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sisymbrium officinale</td>
<td>mustard, hedge</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solanum carolinense</td>
<td>Horsenettle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solanum melangaster</td>
<td>eggplant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solanum tuberosum</td>
<td>potato</td>
<td>(56)107</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sonchus arvensis</td>
<td>sowthistle, perennial</td>
<td></td>
<td></td>
<td>(52)102</td>
<td></td>
</tr>
<tr>
<td>Sorghum halepense</td>
<td>johnsongrass</td>
<td>(54)32</td>
<td>(52)102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sorghum vulgare</td>
<td>sorghum</td>
<td>(51)174</td>
<td>(55)41</td>
<td>(60)29</td>
<td>(59)82</td>
</tr>
<tr>
<td>Sorghum vulgare var. sudanense</td>
<td>sudangrass</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spinacia oleracea</td>
<td>spinach</td>
<td>(53)61</td>
<td>(54)32</td>
<td>(59)82</td>
<td></td>
</tr>
<tr>
<td>Sporobulus cryptandrus</td>
<td>dropseed, sand</td>
<td>(53)100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statice sinata</td>
<td>flower heads</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statice suworonii</td>
<td>flower heads</td>
<td>(62)17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stipa leucotricha</td>
<td>needlegrass, Texas</td>
<td>(53)74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stipa viridula</td>
<td>needlegrass, green</td>
<td>(51)23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thlaspi arvense</td>
<td>pennycress</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thymus serpyllum</td>
<td>mother-of-thyme</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torenia fournieri</td>
<td>blue wishbone flower</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Trifolium hybridum</td>
<td>clover, alsike</td>
<td>(65)52</td>
<td>(63)59</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trifolium incarnatum</td>
<td>clover, crimson</td>
<td>(51)155</td>
<td>(57)148</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trifolium pratense</td>
<td>clover, red</td>
<td>(54)32</td>
<td>(55)141</td>
<td>(63)88</td>
<td>(50)109</td>
</tr>
<tr>
<td>Trifolium repens</td>
<td>clover, white</td>
<td>(65)52</td>
<td>(55)141</td>
<td></td>
<td>(50)109</td>
</tr>
<tr>
<td>Trifolium subterraneum</td>
<td>clover, subterranean</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trisetum spicatum</td>
<td>trisetum, spike</td>
<td>(53)91</td>
<td>(55)80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triticum aestivum</td>
<td>wheat</td>
<td>(51)174</td>
<td>(55)80</td>
<td>(55)26</td>
<td>(50)144</td>
</tr>
<tr>
<td>Triticum durum</td>
<td>wheat, durum</td>
<td></td>
<td></td>
<td></td>
<td>(55)141</td>
</tr>
<tr>
<td>Tropaeolum majus</td>
<td>nasturtium</td>
<td>(51)78</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ulmus americana</td>
<td>elm, American</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vendidium fastuosum</td>
<td>daisy, monarch</td>
<td>(55)84</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verbascum thapsus</td>
<td>mullein, common</td>
<td>(53)124</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verbena hortensis</td>
<td>(53)96</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veronica latifolia</td>
<td>speedwell, Hungarian</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veronica spicata</td>
<td>speedwell, spike</td>
<td>(64)33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia americana</td>
<td>vetch, American</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia angulatus</td>
<td>vetch, single-flowered</td>
<td>(60)48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia angustifolia</td>
<td>vetch, narrowleaf</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia articulata</td>
<td>vetch, monantha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia benghalensis</td>
<td>vetch, purple</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia cracca</td>
<td>vetch, bird</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia dasyarpa</td>
<td>vetch, winter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia ervilla</td>
<td>vetch, bitter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia faba</td>
<td>bean, broad</td>
<td>(62)125</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia hirsuta</td>
<td>vetch, tiny</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia hybridia</td>
<td>vetch, yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia lathyroides</td>
<td>vetch, spring</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia lutea</td>
<td>vetch, yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia pannonica</td>
<td>vetch, Hungarian</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia sativa</td>
<td>vetch, common</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia tetrasperma</td>
<td>smooth tare</td>
<td></td>
<td></td>
<td>(55)80</td>
<td>(51)174</td>
</tr>
<tr>
<td>Vicia villosa</td>
<td>vetch, hairy</td>
<td></td>
<td></td>
<td>(55)80</td>
<td>(51)174</td>
</tr>
<tr>
<td>Vigna sinensis</td>
<td>cowpea</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botanical name</td>
<td>Common name</td>
<td>Germination</td>
<td>Purity</td>
<td>Identification</td>
<td>Other</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------</td>
<td>-------------</td>
<td>--------</td>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Vitis vulpina</td>
<td>grape, riverbank</td>
<td>(64)31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yucca filamentosa</td>
<td>yucca, adamsneedle</td>
<td>(55)84</td>
<td>(57)170</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zea mays</td>
<td>corn, field</td>
<td>(54)50</td>
<td>(50)63</td>
<td>(50)57</td>
<td></td>
</tr>
<tr>
<td></td>
<td>corn, sweet</td>
<td>(54)93</td>
<td>(51)174</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)138</td>
<td>(54)100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(57)148</td>
<td>(55)92</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(60)181</td>
<td>(55)131</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(56)95</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(58)89</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(58)107</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(59)82</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(60)29</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(61)26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(61)119</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(61)123</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(63)33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinnia elegans</td>
<td>zinnia</td>
<td>(54)32</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoysia japonica</td>
<td>lawngrass, Japanese</td>
<td>(51)23</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION III. — AUTHOR INDEX

Abbott, C.C. (60)15; (63)19; (64)24
Abdel-Al, M.S. (55)154
Allen, L.N. (57)29
Andersen, Alice M. (50)141; (51)92; (53)15,74
Anderson, J.C. (54)93
Andrews, C.H. (60)188; (63)117
Atwater, Betty (60)173
Ayres, J.C. (52)35
Baenziger, H. (63)88; (64)90
Bailey, R.C. (57)107
Baker, Gail S. (62)88
Baldauf, Dorothy (50)78
Barnes, J.E. (50)26
Baskin, C.C. (61)73,78; (63)63
Bass, Carroll M. (50)27; (51)47 (52)18,20; (53)27; (60)17
Bass, L.N. (51)112,118; (52)116; (53)14,210; (54)13; (55)14,18,20,24,43,47; (56)15,20,22,148; (57)15,20,21,67,124; (58)12,14,16,22,58; (59)5,6,10,11,13,14,21; (60)8,12,13,18,225; (61)14,31; (62)14,27,40; (63)16,83,102,148; (64)11,14,24,42,120; (65)15,31
Benson, D.A. (59)21; (60)27
Bivens, Doris (53)45
Bloodgood, J.A. (64)41; (65)84,88,154
Boller, R.A. (54)97
Bondie, Judith (65)90
Bonner, F.T. (62)84,88; (64)109; (65)60
Boughton, G.R. (58)18
Bradnock, W.T. (58)70; (59)20; (60)24,213; (62)125,130
Brennan, N.L. (55)20; (56)23; (57)24
Brickbauer, E.A. (57)75
Britton, Edyth (59)27
Brooks, O.L. (55)97
Brown, C.L. (56)82
Brown, E. (51)41
Bruce, C.F. (50)144; (51)114
Burris, J.S. (59)73; (61)58; (60)149,158
Butters, E.A. (52)36
Byrd, H.W. (61)41
Caldwell, William P. (50)124,130; (52)17; (53)215
Caldwell, Bruce (50)2
Camargo, C.P. (63)135
Canfield, R.V. (62)49
Canode, C.L. (53)92
Carlson, E. (59)160
Carter, A.S. (51)34; (52)31; (53)30; (54)18; (57)17
Carter, L.P. (55)37,88
Caviness, C.E. (64)102
Chen, T.C. (50)66
Chilton, M.W. (51)155
Ching, T.M. (62)116
Christensen, C.M. (57)141
Christenson, C.E. (62)31; (63)22; (64)36; (65)27
Chumney, R.D. (51)55
Clark, B.E. (50)16,22,34,78; (51)22,73,76; (52)24,49,75,133,135,137; (55)14,110; (56)15,19,20; (57)20,157; (58)28; (60)17,25,33; (61)22,68
Clark, Dorris, C. (52)116; (57)67; (60)26; (63)102,148; (64)120
Clark, G.H. (54)18
Clark, I.H. (59)40
Clark, L.E. (60)138
<table>
<thead>
<tr>
<th>Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smucker, A.J.M.</td>
<td>(65)147</td>
</tr>
<tr>
<td>Spachter, M.L.</td>
<td>(54)19</td>
</tr>
<tr>
<td>Spain, G.E.</td>
<td>(59)8; (60)18; (61)14; (62)15,32; (63)23,29</td>
</tr>
<tr>
<td>Springfield, H.W.</td>
<td>(58)18; (63)67</td>
</tr>
<tr>
<td>Stanway, Viola</td>
<td>(50)97; (52)104; (53)80; (56)74; (61)85; (64)97</td>
</tr>
<tr>
<td>Starr, G.H.</td>
<td>(56)107</td>
</tr>
<tr>
<td>Steen, K.M.</td>
<td>(63)51; (65)143</td>
</tr>
<tr>
<td>Steere, W.C.</td>
<td>(56)25</td>
</tr>
<tr>
<td>Steinbauer, G.P.</td>
<td>(50)13,112; (51)42</td>
</tr>
<tr>
<td>Steinkraus, K.H.</td>
<td>(51)174; (52)127; (54)32</td>
</tr>
<tr>
<td>Stermer, R.A.</td>
<td>(54)73; (56)38</td>
</tr>
<tr>
<td>Still, T.W.</td>
<td>(64)80; (65)23</td>
</tr>
<tr>
<td>Stoddard, E.M.</td>
<td>(56)25</td>
</tr>
<tr>
<td>Stone, R.B.</td>
<td>(52)81</td>
</tr>
<tr>
<td>Sundermeyer, E.W.</td>
<td>(50)20; (51)12; (52)9,13,14; (53)5,6,9,10,11; (56)20; (58)32; (59)10,22; (59)22; (64)47; (65)24</td>
</tr>
<tr>
<td>Sung, T.Y.</td>
<td>(52)162</td>
</tr>
<tr>
<td>Suttle, A.D.</td>
<td>(55)22</td>
</tr>
<tr>
<td>Sutton, M.D.</td>
<td>(53)94</td>
</tr>
<tr>
<td>Tekrony, D.M.</td>
<td>(56)130; (57)45,117; (59)16; (60)20; (64)80</td>
</tr>
<tr>
<td>Ter Bush, F.</td>
<td>(65)155</td>
</tr>
<tr>
<td>Thalman, H.G.</td>
<td>(52)37</td>
</tr>
<tr>
<td>Thies, S.A.</td>
<td>(50)87</td>
</tr>
<tr>
<td>Thornes, H.O.</td>
<td>(52)70</td>
</tr>
<tr>
<td>Thornton, B.J.</td>
<td>(52)112; (54)9</td>
</tr>
<tr>
<td>Thornton, Mildred L.</td>
<td>(52)112; (53)107; (55)18; (56)16,120; (57)20; (58)80; (59)19; (60)19,24</td>
</tr>
<tr>
<td>Tool, E.A.</td>
<td>(51)106; (58)17,32</td>
</tr>
<tr>
<td>Tool, Vivian K.</td>
<td>(51)125; (53)124; (54)26</td>
</tr>
<tr>
<td>Towers, Birdie</td>
<td>(54)21</td>
</tr>
<tr>
<td>Towill, W.B.</td>
<td>(63)88</td>
</tr>
<tr>
<td>Toy, S.J.</td>
<td>(57)67</td>
</tr>
<tr>
<td>Troll, J.</td>
<td>(62)154</td>
</tr>
<tr>
<td>Tupper, G.R.</td>
<td>(60)138</td>
</tr>
<tr>
<td>Ulvin, O.A.</td>
<td>(58)32</td>
</tr>
<tr>
<td>Vaughan, C.E.</td>
<td>(50)109; (58)128; (60)104; (62)14; (63)135</td>
</tr>
<tr>
<td>Vaughan, E.C.</td>
<td>(55)22</td>
</tr>
<tr>
<td>Vaughan, G.T.</td>
<td>(50)52; (51)60</td>
</tr>
<tr>
<td>Vozzo, J.A.</td>
<td>(64)94</td>
</tr>
<tr>
<td>Vrooman, Mary J.</td>
<td>(50)78</td>
</tr>
<tr>
<td>Wahab, A.H.</td>
<td>(59)73; (60)58</td>
</tr>
<tr>
<td>Waldrip, B.T., Jr.</td>
<td>(62)91</td>
</tr>
<tr>
<td>Wallace, Rubye</td>
<td>(57)132</td>
</tr>
<tr>
<td>Wallen, V.R.</td>
<td>(50)137; (53)194</td>
</tr>
<tr>
<td>Walls, W.E.</td>
<td>(54)22; (55)26; (57)34; (58)37; (60)32</td>
</tr>
<tr>
<td>Wang, B.S.P.</td>
<td>(59)15; (63)94; (64)72</td>
</tr>
<tr>
<td>Warner, G.M.</td>
<td>(53)194</td>
</tr>
<tr>
<td>Waters, E.C., Jr.</td>
<td>(50)76; (55)25; (56)28,99; (58)33; (59)154</td>
</tr>
<tr>
<td>Weir, H.L.</td>
<td>(50)25</td>
</tr>
<tr>
<td>Westrin, W.F.</td>
<td>(50)23; (52)22; (53)16; (65)22</td>
</tr>
<tr>
<td>Wiesner, L.E.</td>
<td>(57)107; (61)26; (62)26; (64)29; (65)24</td>
</tr>
<tr>
<td>Wight, R.E.</td>
<td>(51)172; (52)17; (53)13</td>
</tr>
<tr>
<td>Will, Margaret</td>
<td>(57)117</td>
</tr>
<tr>
<td>Wilson, G.R.</td>
<td>(62)30; (63)21</td>
</tr>
<tr>
<td>Winstead, E.E.</td>
<td>(52)19; (53)15; (54)14; (55)15,97; (56)17; (57)27,34; (58)35; (59)35; (60)16; (61)12; (63)13</td>
</tr>
<tr>
<td>Wiseman, Elizabeth F.</td>
<td>(51)131; (58)46; (59)124; (60)79; (61)18; (62)68; (65)102</td>
</tr>
<tr>
<td>Wood, E.</td>
<td>(65)156</td>
</tr>
</tbody>
</table>
Woodbridge, Mary E. (53)29
Woodstock, L.W. (54)50; (55)131; (56)95; (57)144; (58)27,34; (59)21,24,36; (60)26,32; (61)28; (63)20; (64)24; (65)159
Wrage, L.J. (57)75
Wright, W.G. (52)109,169
Wyss, W.L. (50)14
Yeatman, J.H. (54)97
Youngman, V.E. (55)169
Yount, W.L. (51)114
Zak, J.M. (62)154