

Index

- Acids, fruit juice, 61-68
Acorn deformation, 69, 79-80
Aeglopsis, 136-40
Aeglopsis chevalieri Swing., grafts with infected citrus, 139-40
Afraegle, 136-40
Afraegle paniculata (Schum.) Engl., grafts with infected citrus, 139-40
Albedo coloration, 69, 81-82
Allen, Ross M., 211-15
Amino acids, orange juice, 62-68
Andhra Pradesh, India, 132-35
Aphids as vectors, 126-30
Aphis gossypii (Glov.), 126-30, 137, 146, 255
Aphis spiraeicola Patch, 126-30
Arizona Bud Certification, 211-15
Arizona, Citrus Experiment Station in Tempe, 85-91
Arizona, stubborn symptoms in, 77-78, 84-91, 97, 98
- Bahia orange, 216-18, 240
Bahianinha (navel) orange, 40-42, 43-48, 240
Bark scaling, 32, 43, 52-53
Bigornia, Avelino E., 101-106
Black citrus aphid, 126-27, 130
Blood orange, Egyptian, 151-52
Bové, Colette, 60-68
Bové, Joseph M., 60-68
Brazil: calamondin, 174; psorosis, 217; scion-rootstock incompatibilities, 172-76; tristeza, 116-20, 216-17
Brown, Ralph T., 50-55
Budwood certification: Arizona, 211-15; Brazil, 48, 238-41; Texas, 226
Budwood, infected; 40-44; used in tests, 22-30, 35-58
- Budwood Registration Program: Arizona, 77-78, 211-15; Brazil, 216-19; California, 77-78, 220-25; Florida, 22, 109-11
Buffington, Gordon, 159-65
Burnett, Harry C., 22-25, 107-12
- Cachexia, 150-58, 159-65; virus, 27, 74, 75, 77-78
Caipira sweet orange, 40, 44
Calamondin, 69, 101, 174
Calavan, E. C., 15-21, 26-33, 69-76, 150-58
Calcium content of leaves, 98
Calica, Carlos A., 101-106
California: Citrus Variety Improvement Program, 220-25; nucellar-line trees, 8-14; stubborn symptoms, 77-78
Cameron, J. W., 8-14, 15-21
Carpenter, J. B., 77-78
Carrizo citrange, 52-53
Chapot, H., 79-83, 177-81
Childs, J. F. L., 93-96
Christiansen, D. W., 69-76, 150-58
Citrange: Carrizo, 52-53; Cunningham, 74, 172; Morton, 31, 52-53, 172; Norton, 53-54; Rusk, 52-55, 172; Troyer, 52-53, 172; Uvalde, 53-54, 172
Citron, 166-71; Diamante, 166, 168, 170-71; Fawcett, 168-71
Citrus aurantium L. 77-78, 136
aurantium forma *Kabusu*, 251
aurantifolia (Christm.) Swingle, 69, 77, 132, 136, 154, 241
aurantifolia (Christm.) Swingle x *Fortunella japonica* (Thunb.) Swing., 187

INDEX

- hassaku*, 249-50
jambhiri Lush., 74, 151, 188
limetta Risso, 150
limettioides Tanaka, 27, 77-78, 150-58, 159
limon (L.) Burm., 27, 69, 132, 188-96, 241
limonia Osbeck, 73, 77
medica, 166-71
mitis Blanco, 69, 101, 174
nobilis, 50-52, 101
paradisi, 50-52
paradisi (Macf.), 69, 77-78, 132, 136, 150-51, 241
paradisi 'Bowen' x *C. reticulata* Blanco 'Dancy', 77-78, 164
reticulata, 50-54
reticulata (Blanco), 27, 70, 150-57, 241; Bombay, 132; Brazil, 241
reticulata x *C. paradisi* MacF., 29, 50, 73-74
sinensis, 50, 69, 98, 118, 132-35, 138-40, 150-52, 166-71
sinensis (L.) Osbeck, 27, 60-61, 69, 77, 136, 239; tests for stubborn, 69-76; yellow vein inoculation, 188-96
sinensis x *P. trifoliata*, 52, 73, 74
 Citrus Variety Improvement Program of California, 220-25
 Cleopatra mandarin, 50-54
 Cleopatra tangerine, 44
 Cohen, Mortimer, 107-12
 Color inversion on stubborn infected fruit, 82-83
 Columella curvature, 80, 82
 Corbett, M. K., 197-204
 Corsica, 242-44
 Cox, J., 34-39
 Crinkly leaf virus, 205-10
 Cuban shaddock, 31, 151

 Daidai (Japanese sour orange), 251
 Dancy tangerine, 164, 217, 218
 DeWolfe, T. A., 56
 Diamante citron, 166, 168, 170-71
 Drake, R. J., 141-49

 Egyptian blood orange, 151
 Eureka lemon, 27, 69, 118-19, 137-40, 143-45, 161, 197-99, 205-10, 241
 Eureka (Frost) lemon, 161-64, 251

 European and Mediterranean Plant Protection Organisation (EPPO), 113-15
 Eustis limequat, 187
 Exocortis: color test, 22-25; field tests, 40-42, 43-49; symptoms, 42; Argentina, 233; Arizona, 77-78; Brazil, 217-18; California, 26-33, 77-78; Corsica, 244; Florida, 22-33; Italy, 246; Louisiana, 50-55; Texas, 226-30

 Fawcett citron, 168-71
 Fawcett, H. S., 69
 Fernández Valiela, M. V., 231-37
 Foot rot, 56, 58, 108
 Fraser, L. R., 34-39, 205-10
 Frolich, E. F., 166-71
 Frost Marsh grapefruit, 8-9, 12-14
 Fruit juices: tests for acidity, 61-65; for soluble solids, 94-96; for protein, 99-100; use in mechanical inoculations, 198-204

 Genoa lemon, 206-7
 Giacometti, D. C., 216-19
 Gosford Citrus Experiment Station (Australia), 36
 Grafting, 10-42, 43-44, 50-55, 132-35, 150-58
 Granhall, Ingvar, 113-15
 Grant, T. J., 116-20, 126-31, 197-204
 Grapefruit: Marsh, 40, 77-78; Red-blush, 77-78; Ruby Red, 50; Webber's Java Pink, 77-78
 Guinobatan Experiment Station (Philippines), 103
 Gum pocket, 177-81
 Gummosis, 56, 58

 Hamlin orange, 40-42, 44, 77-78, 118, 217, 240
 Hassaku dwarf, 248-50
 Hilgeman, R. H., 84-92
 Hodgson, Robert W., 1-7, 166-71

 Impietratura, 177-81, 182-86; experiments, 183-84; symptoms, 182-84; Greece, 180; Lebanon, 178; Morocco, 177; Turkey, 178
 Indexing of trees: Arizona, 77-78, 213-14; California, 77-78, 220-25; Flor-

INDEX

- ida, 109; Texas, 226-30
 India: tristeza virus tests, 132-35
 Inherited diseases, 15-21
 Iron chelate: effect on stubborn infected trees, 89-90
 Iskenderun Experiment Station (Turkey), 79
 Italy, 245-46

 Jamberi, 132-34
 Jamoussi, Béchir, 253-55

 Kennedy lemon, 161
 Key lime, 126
 Klotz, L. J., 56
 Knorr, L. C., 57-59
 Koethen sweet orange, 70-72, 75, 77-78, 98

 Leaves, anatomical study, 98
 Leite, Norberto, 216-19
 Lemon: Eureka, 27, 70, 172, 205-206; Kennedy, 161; Lisbon, 27, 208; Meyer, 70, 208, 214-25
 Lemon crinkly leaf, 205-10
 Lepa explosiva, 58
 Leprosis, 58
 Levitt, E. C., 34-39
 Lignocortosis, 19, 150-57. *See also* Wood pocket
 Likubin, 121-25
 Limeira Citrus Experiment Station, 40, 43-49, 116, 172-76
 Limequat, Eustis, 187
 Lisbon lemon, 137-38, 154
 Long, W. G., 93-96

 Malaguti, Gino, 57-59
 Mandarin orange, 27, 50-54, 70
 Marrakech Experiment Station (Morocco), 83
 Marsh grapefruit, 8-9, 34-36, 40, 44, 60-61, 77-78, 98, 117, 139-40, 151-57, 216-17
 Matsumoto, T., 121-25
 Mechanical inoculation, 197-204
 Mediterranean area, 113-15, 177-81, 182-86
 Mediterranean sweet orange (Argentina), 235-36
 Melon aphid, 126-30
 Mexican lime, 77-78

 Meyer lemon, 70, 136-37, 144-45, 255; eradication in Arizona, 214-15
 Minneola tangelo, 77-78, 164
 Monier, Françoise, 60-68
 Moreira, Sylvio, 40-42, 116-20
 Morel, Georges, 60-68
 Morton citrange, 31, 161
 Mosambi, orange, 132

 Norman, Paul A., 126-31

 Olson, Edward O., 159-65
 Organic acid content, 61-65
 Orlando tangelo, 29, 50, 73-74; reaction to exocortis, 159-61; reaction to xyloporosis, 150-58
 Owari satsuma, 50-55

 Palestine sweet orange, 31, 73-74, 77-78, 150-58; reaction to xyloporosis, 150-52, 161
 Pera orange, 40-41, 44, 48, 116-18, 174-75, 216-18, 239-40
 Philippines, 101-106
 Phloroglucinol-HCl, 23, 43
Phytophthora spp., 56
 Phyto virology: standard procedures recommended, 258-59
 Pineapple sweet orange, 50, 161
 Plaquemines Parish Experiment Station (Port Sulphur, La.), 50
Poncirus trifoliata, 22-23, 43, 50, 74, 159; buds used in tests, 41-42; inoculation with yellow vein, 188-96; rootstocks in tests, 44-46, 50-55, 77-78; Brazil, 172-76; Italy, 246; Japan, 249, 251; Texas, 164
 Ponkan mandarin, 50-52
 Psorosis, 27, 48, 56, 74, 77, 187-96; Argentina, 233-34; Brazil, 217-18, 239-40; Corsica, 242-43; Fondi, Italy, 245-46; Japan, 247-48; Tunisia, 253-55; Venezuela, 57-59

 Quick decline, 123, 126, 132. *See also* Tristeza

 Rangpur lime, 31, 40-42, 43-48, 50-55, 73, 159-65, 166-71, 217
 Rao, P. Govinda, 132-35
 Redblush grapefruit, 77-78, 98
 Reddy, G. S., 132-35

INDEX

- Reuther, Walter, 220-25
 Rootstocks, 50-55, 70-75
 Rossetti, Victoria, 43-49, 238-41
 Rough lemon, 1, 69, 73-74, 151, 174-75, 188-96
 Rubidoux trifoliata, 52, 54
 Ruby Red grapefruit, 50
 Ruggieri, Gaetano, 182-86
- São Paulo, Brazil, 238-41
 Salibe, Ary A., 116-20, 172-76, 238-41
 Sangtra mandarin, 132
 Satsuma dwarf, 247-51
 Scaling, 37
 Schneider, Henry, 15-21, 136-40
 Seedling yellows, 70-72, 136-37
 Seedling yellows virus: investigations, 144-46; relation to tristeza virus, 142, 146-47; Australia, 146-47; California, 141-49; Japan, 247-48; South Africa, 141, 143, 147
 Seleta de Itaborai orange, 174
 Serological investigations for stubborn, 93-100
 Seville (sour) orange, 143
 Shamouti orange, 73, 77-78, 150-57, 161-63, 178
 Shell bark, Argentina, 235
 Shull, Art, 159-65
 Sibia, Cesare, 245-46
 Sinclair, James B., 50-55
 Sleeth, Bailey, 226-30
 Soost, R. K., 8-14, 15-21
 Sour orange, 77-78, 112, 132, 136, 174-75
 South Africa, 136-40
 Spirea aphid, 126-30
 Stem pitting, 102-103, 116-19, 133-34, 136, 146, 148, 216-17, 232-33
 Storm, L. W., 97-100
 Streets, R. B., 97-100, 211-15
 Stroyan, H. L. G., 114-15
 Stubborn disease, 60-100
 Stunting of trees, 26, 28-32; relation to exocortis, 34-39; to stubborn, 69-76; to tristeza, 107, 112
 Styler-end greening, 93-96
 Su, H. J., 121-25
 Sultani orange, 180
 Sunshine tangelo, 74
 Sweet lemon, 150
 Sweet lime, 27, 73, 77-78, 150-58, 159
- Sweet orange, 50, 69, 98, 118, 138-40, 150-52, 166-71; Caipira, 40, 44, 50; Hamlin, 240; Pera, 240; Pineapple, 50; Valencia, 240; Washington Navel, 60-61, 77-78
 Swingle, Walter T., 2-6
- Tahiti lime, 154, 241
 Taiwan, 121-25
 Tanaka, Shoichi, 247-52
 Tanaka, Tyozauro, 2, 3-6
 Tangelo: Minneola, 77-78; Orlando, 27, 50, 73-74, 150-58; Sunshine, 74; Williams, 53
 Tangerine orange: Cleopatra, 44; Clementine, 161
 Taxonomy, 1-7
 Temple orange, 93-96; in vector tests, 126-30
 Thornberry, H. H., 256-59
 Tien Chieh mandarin, 70
Toxoptera aurantii, 126-30
Toxoptera citricidus (Kirk.), 126-30, 132-34, 139, 141, 216, 255
 Transmission by aphids, 126-30
 Trifoliata orange. See *Poncirus trifoliata*
 Tristeza, 27, 70, 74, 75, 77, 101-20, 126-31; Argentina, 231; Brazil, 116-20, 216-17, 239; California, 222-25; Florida, 107-12, 126-30; India, 132-35; Japan, 247-50; Mediterranean area, 113-15; Philippines, 101-106; S. Africa, 136-40
 Troyer citrange, 52, 73, 74, 161
- Valencia orange, 34-36, 50-55, 73-74, 77-78, 98, 118, 138-40, 216-17, 240; in vector tests, 126-30; in xyloporosis tests, 150-52
 Vein enation virus, 27, 31, 74, 77, 187-96, 251
 Venezuela: psorosis, 57-59
 Virus diseases: Argentina, 231-36; Brazil, 238-41; Corsica, 242-44; Italy, 245-46; Japan, 247-52; Texas, 226-29
 Virus interactions, 187-96
 Viruses: identification, 256-59
 Vogel, R., 242-44
- Wallace, J. M., 141-49

INDEX

- Wang, M. C., 121-25
Washington Navel orange, 8-11, 34-36, 50, 60-61, 70-74, 77-78, 84-85, 98, 151, 177
Weathers, L. G., 26-33, 150-58, 187-96
Wekiwa tangelo, 164
West Indian lime, 69-70, 116, 132, 188, 216-17, 227, 241
Williams tangelo, 53
Wood pocket, 19, 150-57
Xyloporosis, 150-58, 159-65; virus, 27, 48, 75, 77-78, 150; Argentina, 234-35; Brazil, 217-18; Corsica, 243; Italy, 245-46; Texas, 159-65; Tunisia, 253-55
Yamada, Shunichi, 247-52
Yellow vein, 74, 187-96