

INDEX

- Adaptation to environment*, see *Environment*
 Aitken, W., 12
 Alexander, O., 10
 Allard, H. A., 38n.
America, breeders of potato in, 10
 Anderson, Dr J., 12
 Anderson, T., ix, 23, 127, 258
Anthers, cone of, narrow, broad, 183; colour of, 184; coloured line of dehiscence of, 184
Anthocyanin, 28; genes concerned in formation of, 28
Aphis, relation to Virus Disease, 124
 Appel, O., 183
 Appleman, C., 74, 87, 88
 Artschwager, E., 109, 111
 Atanasoff, D., 76, 122, 126
 Aumiot, J., 24
 Austin and McAslan, Messrs, 255
Axils of leaflets, pigmented, 176; correlation with tuber eyes, 58
Barley, 16, 26, 27, 32, 36, 37, 57, 65, 66, 84, 90, 92, 118, 125, 166, 171, 337
 Bartholomew, E. T., 131
 Baumann, E., 16
 Beaven, Dr, 337
 Bernard, Noel, 102
Berries, shape of, 185; relation to yield, 89
 Berthault, P., 24, 108, 111
 Biffen, Prof. Sir R., x, 17
Blackening on cooking, 131, 198
 Blackman, Prof. V., 83
Blight, see *Phytophthora infestans*
 Bliss and Sons, Messrs B. K., 205
 Board of Agriculture, 6
Bolters, description of, 127; leaf index of, 128; varieties commonly affected, 128
 Bornemann, F., 181
 Boussard, L., 109
 Boyle, Prof. C., ix, 106
 Breeze, Miss, 42n.
 Bresee, A., 10, 288
 Briggs, J., ix
 Broili, J., 39, 42, 181
 Brotherton, W., 163
 Brown, A., 308
 Brown, J., 260
 Brown, G., 234
 Brown, Dr W., 83, 84
 Bruce and Robbie, Messrs, ix
 Bryan, H., ix, 139
 Bukasov, S. M., 166
 Burbank, Luther, 10
 Butler, J., ix, 10, 275, 277
Cambridge, 65, 166
 Campin, Miss M., 113
 Carman, E. S., 10
 Cartwright, E., 6
Catechol, 132
 Chittenden, F. J., 77, 78, 87
Chromosome, haploid number of, 113
 Cimbal, Otto, 11, 23
 Clark, J., 1, 8, 9, 204, 244, 250, 278, 282, 291, 359, 360
Classification of varieties, systems of, 44; objections to same, 44; essentials for, 46; field-guide preferred to, 47
Classificatory guide, 49
Clone, 1
 Clusius, de C., 3, 4, 5; potato of, 4
 Cole, 308
 Coleman, Ltd, Messrs G., ix
 Coleman, W., 255, 360
 Collins, E. J., 30, 181
Colour, nature of, 28; of tuber, 28; distribution of, 30; of flesh, see *Flesh*; effect of temperature on, 132
Cooking quality, 33; floury, close, waxy, soapy, 197; see also *Individual Varietal Descriptions*, ch. xxvi, p. 203
Correlations, definition of degrees of, 57; table of correlated characters, 57
Cortical cells, size of, 112
 Cotton, A. D., 206n.
 Coudon, H., 109
 Council of Medical Research, 110
Crinkle, 122
Crop, standard cropping curves, 65; segregation of curve types, 71; crop classes, 64; suggested genetic interpretation, 69; relation to vigour, 71, 73; of domestic varieties, 197; see also *Individual Varietal Descriptions*, ch. xxvi, p. 203
 Cross, C., 359
 Crump, W., 359
Curl, see *Virus diseases*
 Damner, O., 105
 Daniel, L., 18
 Daniels, Bros., Messrs, ix, 241
 Darwin, C., 17, 18
 Dean, A., 20, 238, 266
Degeneration of varieties, relation to asexual propagation, 11, 12; due to virus disease, 12; checked by use of immature seed, 14
 Devaux, H., 188
 Denny, F. E., 75 n.
 Dix, A., 107
 Dobbie and Co., Messrs, 96, 209, 227, 255, 264, 299, 308

- Drummond, Montagu, ix
Dry matter, content of tuber, 103; varietal differences in respect to, 104; climatic effect on, 105
- Early Maincrop varieties*, list of, 63; preference for heavier types of soil, 134
- East, E., 20, 23, 26
- Economic influence of the potato*, 111; common employment of varieties described: in England, 199; in France, 201; in Germany, 202
- Edinburgh*, 60, 62, 96, 97, 98, 101, 102
- Eel-worm*, attacks of *Heterodera radicola*, 120; *Tylenchus dipsaci*, 121
- Environmental factors*, 74, 130; influence of, on dry matter content, 105; varietal differences in regard to cooling, 130; effect of high temperature on potato tubers, 131; varietal differences in regard to high temperature, 132; influence on nitrogen content of tuber, 134
- Eyes of tuber*, genetics of, 30; relation to Mosaic Disease, 76; relation of, to number of stalks, 88; influence of soil on, 136; deep, fleet, and robin-eye, 193; picked eye, 193; correlation of, to coloured leaflet axil, 58
- Farish, S. T., x, 280, 299, 311
- Farish, W. R., 280, 311
- Fenn, Robt., 9, 244, 266, 297, 300, 359
- Fertilization*, various methods of, 25; protection against cross-fertilization, 26, 40n., 41; importance of technique of, 39
- Fidler, C., 234
- Fidler and Sons, Messrs, x
- Findlay, A., the late, 8, 9, 204n., 226, 249, 253, 271, 272, 283n., 285, 294, 301, 313
- Findlay, A. R., 229, 240, 259, 293
- Findlay, W. M., x, 84, 85
- First Early varieties*, N.I.A.B. trials of, 61; list of, 62; preference for lighter soils, 134
- Fisher, R. A., 64
- Flavone*, 29
- Flesh of tuber*, colour of, 30; English and Continental fashion in, 192; anthocyanin coloration of, 193; genetics of, 30
- Fletcher, 281
- Flowers*, see also *Anthers*, *Stigma* and *Style*; plentiful, scanty, occasional, 181; methods for inducing blooming, 181; calyx, varietal characteristics of, 181; colour of, 182; size of, 183; opening and closing of, 183; correlation of colour to colour elsewhere, 58; absence of any relation between flowering and yield, 89
- Foliage*, colour yellow-green, grey-green, 179; appearance of, 179; inheritance of characters of, 37
- Folsom, D., 21, 76
- France*, improvement of potato in, 11
- Fryer, H. F., x
- Gardiner, J., 235, 277
- Garner, W. W., 38n.
- Gemmell, 312, 314
- Genetics*, application of, to breeding, 28; of tuber colour, 28; of haulm, 36; of yield, 64
- Gerarde, J., 3, 4, 5
- Germany*, potato raising in, 11; varieties commonly used in, 202
- Giddings, N. J., 282
- Gilding, W., x
- Girard, A., 83
- Girvan*, early varieties grown at, 60
- Glasnevin*, research work at, 90n.
- Glynn, Miss M., 34
- Goodey, T., 121
- Goodrich, C., 7, 10
- Gough, G. C., 114
- Graft hybrids*, Darwin's account of hybrids, 17; Biffen's experiments, 17; Roach's experiments in relation to Wart Disease, 18; grafting on other species of *Solanum*, 18; German varieties said to arise from, 18
- Grist, B., 360
- Habit of plants*, dwarf, 171; short, medium height, tall, 172; compact, open, 172
- Hagger, Miss E. M., x
- Hannah, J. M., 134
- Harper Adam's College, 84
- Harris, J., x, 306
- Harvey, R. B., 131
- Haulm*, types of, 36; inheritance of characters of, 36
- Heckel, E., 24
- Henderson, P., 219
- Henry, J., x, 273
- Hepburn, Lord, 83
- Heron, J., 218
- Heterosis*, 26; influence of, 27, 31, 72
- Hiam, Sir F., x
- Histological varietal features*, 112
- History*, sketch of development, *see also Individual Varietal Descriptions*, ch. xxvi, p. 203; of present-day varieties, 3; of fifty years of production of Messrs Sutton and Sons, 359
- Hogg and Robertson, Messrs, x, 233
- Hope, Sir H., 314n.
- Howie, J., x
- Hutchinson, H. P., 83
- Hybridization*, technique of, 38
- Inflorescence*, see also *Flower*; simple, compound, 179; flower stalk of, 179

INDEX

371

- Interference*, affecting yield, 93
Irish Free State, Ireland, 90n.; spread of potato in, 5
 Johnson, G. C., 86
 Johnson, Prof. T., x, 105, 106, 109
 Jones, D., 26
 Jones, L. R., 282
 Joshi, W., 132n.
 Keay, F. W., 43, 206, 212, 213, 314n.
Keeping Quality, 198; *see also Individual Varietal Descriptions*, ch. xxvi, p. 203
 Kerr, W., 264, 273
 King, Miss, 257, 360
Kirton, Lincs, trials at, 62, 96, 97, 98, 101, 102, 255
 Knight, Andrew, 7, 38, 83, 181
 Kotthof, P., 38
 Krantz, F. A., 92
 Labergerie, M., 24
 Lasham, W. P., ix, 11, 237
Late varieties, list of, 63; preference for heavier soils, 134
 Lavallée, P., 16, 88
Leaf, structure of, 176; spacing of leaflets, 177; overlapping of leaflets in, 177
Leaf index, method of determination of, 163; use of healthy adult leaflets, 165; independence of country of origin, 166; use in determination of synonymy, 167; table of varieties examined, 169
Leaflet, size classes of, 167; relation of size to leaf index and maturity, 168; list of varieties examined, 169; texture of, 177; index of, 163
Leaf Roll, resistance of varieties to, 9; inheritance of susceptibility to, 35; relation to spindling sprouts, 76; rate of infection, 84n.; description of, 122
 Leake, H. M., 163
Leningrad, leaf index determinations in, 166
 Le Roy-Mabille, 83
 Lesley, J. W., 19, 23, 33, 34, 36, 65, 66, 115, 173, 184, 278
 Lindley, J., 85
Linkages, *see Correlations*
 Loeb, J., 87
 Loewe, H. M., x
 Löhnis, M., 116
 Loudon, J. C., 83
 Lutman, B. F., 282
 Lyons and Co., Messrs J., x
 McAlister, A. W., x, 262, 292, 299
 McIntosh, T. P., 195
 McKay, R., 76, 84n., 126, 195
 McKelvie, D., x, 6, 10, 21, 22, 23, 193, 206, 212, 213, 214, 216, 286, 314n.
 McKenna, 268
 MacKenzie, W. A., 64
 McLean, W., 76n.
 Magrou, J., 102
 Mair, G., 10, 262, 292
 Major, Bros., Messrs, x
 Malden, W. J., 83, 117
 Mann, H., 131, 132n.
 Marshall, W. H., 6
Maturity, *see also Individual Varietal Descriptions*, ch. xxvi, p. 203; inheritance of, 31; varietal differences of, 60; influence of climate on, 60; influence of provenance of seed on, 61; trials of, 61; N.I.A.B. first early trials of, 61; table of varieties according to, 62
 Maule, A., 18, 210
 Melhus, I. E., 119
 Mendel, G., 10, 34
 Meyer, A., 18
Micorrhiza, 102
 Middleton, Sir T., 80, 135
 Miles, E., 262, 292
 Millard, W. A., 119, 120
 Miller, A., 45
Ministry of Agriculture, 7, 90n., 114, 115, 119, 139
 Modrow, E., 265
 Mold, F., 360
Mosaic Disease, resistance of varieties to, 9, 124, 126; inheritance of susceptibility to, 35; fleet eyes in relation to, 76; description of, 123; tolerance to attacks of, 125; coloured varieties and resistance to, 125; carriers of, 125; effect of environment on, 124
 Mottet, S., x
 Munro, Ltd, Messrs G., x
 Murphy, Dr P., x, 76, 84n., 122, 124, 126, 195
 Murray, J. G., 124
Musée Plantin, 3
Mutations, definition of, 19; of tuber-skin, 19; McKelvie's Arran Victory, 21, Pl. I, 23, 25, 193, 215n.; physiological, 23; affecting foliage, 21; affecting flower, 21; mass mutations of Heckel, Labergerie and others, 24
 Myers, C. H., 87, 88, 94
National Institute of Agricultural Botany (=N.I.A.B.), ix, 7, 19, 60, 61, 62, 63n., 77, 92, 94, 96, 99, 100, 101, 133, 138, 139, 255, 337
 Ness, W., 237
 Newman, L. H., 13
 Nichol, J., 8, 232
Nitrogen, content of, in tuber, 103; varietal differences in respect to, 104; climatic effect on, 105; high nitrogen content of Continental varieties, 110
 Niven, J., 278
Nutritive value of the potato, compared with bread, 110; incomplete diet, 111

24-2

- Oberstein, O., 18, 23, 33, 34
 Onslow, The Hon. Mrs., 131
Ormskirk, ix, 7, 33, 60, 61, 96, 97, 98,
 101, 102, 128, 138, 139, 166, 171, 197,
 255, 268, 274, 285, 309, 356, 357
Palatability factor, definition of, 109;
 different values attached to same in
 different countries, 110
 Papworth, C., 360
 Parker, J., x
 Parker, W. H., ix, 92, 94, 95n., 96, 100,
 102, 337 *et seq.*
 Parow, 105
 Paterson, G. D., x
 Paterson, W., 7, 8, 10, 232
 Paton, Rev. Aikman, 9, 208, 221, 243, 247,
 360
 Pattullo Higgs and Co., Messrs, x
 Paulsen, W., 11, 270
 Perkins and Son, Messrs J., x, 308
 Perret, Cl., x
 Perry, F., 87, 88, 94
 Peru, origin of potato in, 3; ancient
 varieties of, 5
 Pethybridge, G. H., x, 117, 231n., 233
Physiological characters, for maturity,
 cropping, resistance to Wart Disease,
 Virus diseases and *Phytophthora infestans*, cooking and keeping qualities,
see under respective headings; changes affecting resistance to *Phytophthora infestans*, 117; changes
 affecting cooking qualities, 119
Phytophthora infestans, *see also Individual
 Varietal Descriptions*, ch. xxvi, p.
 203; influence on potato breeding of,
 7; resistant varieties to, 8, 116;
 breeding of resistant varieties, 33;
 localization in the tuber of resistance
 to, 116; variation of resistance in the
 same variety, 117; relation of resistance
 to maturity, 119
 Pinney, R. W., 360
 Pizarro, F., 3
 Poad, J. R., x, 86, 207
Pollen, measure of, 184; male sterility, 39,
 132, 184
 Porter, W., 224
 Priestley, J. H., 86
 Profeit, W. J., 84, 85
Protein, *see Nitrogen*
Pure lines, various, raised at Barley, 1, 27
 Quanjer, H. M., x, 121n., 295
 Rand, A., 205
 Reid, A., 228
Rest period of potato, shortening of, 74
 Richter, W., 11
 Roach, W. A., 18
 Robb, W., 15
 Robertson, 233
Robin eye, 193
 Robinson, W., 276
 Roger, J., 222, 310
 Rosa, J. T., 83
Rothamsted, work at the agricultural
 institute of, on maturity, 84
Royal Horticultural Society, Library of,
 18; work on synonymy, 138
Royal Society, committee of, on Food, 103
 Roze, E., viii, 3
 Russell, E. R., x
 Ryx, von C., 23
 Saare, 109
 Sabbe, M., x
 Sadler, E., 287, 360
 Salaman, R. N., 6, 19, 28, 33, 36, 47, 66,
 78, 87, 92, 100, 115, 125, 138, 163,
 173, 184, 217, 337
 Salomons, Sir D., Bt, x, 255
Scab, corky and brown varieties of, 119;
 varietal resistance to, 119
 Schaffnit, E., 33
 Schmidt, E., 18
 Schultz, E. F., 76
Scotland, Board of Agriculture for, 23, 46,
 60, 126, 139, 179, 181, 183, 185, 258,
 262n., 309
Second Early varieties, list of, 63; preference
 for lighter soils of, 134
Seed (flower), methods of production of,
 germination of, 43; colour of,
 correlated with tuber colour, 59
Seed (tuber), immature, use of, 14, 84;
 selection of, 75; place of origin of,
 76; number of, per cent., 78; relation
 between weight of, and total yield,
 78; relation between weight of, and
 character of crop, 79; most remunerative size of, 82; maturity of,
 and relation to yield, 83; selection
 from large *versus* small plant, 85; selec-
 tion from heavy *versus* light crops, 85;
 cutting of, 85; sprouting of, 88
Select Parliamentary Committee, 1880,
 evidence from, 117, 257
Selection, methods of, viz. hill, mass and
 tuber, 15; of tuber shape, 16; as
 means of raising new varieties, 17
 Shakeshaft, M., 263, 360
 Sharpe, C., 303, 305
 Sim, W., 241
 Simmons, N. C., 360
 Smith and Symons, Messrs, 312
 Snell, K., 15, 90, 179, 183, 194, 195, 295
Société Française des Chrysanthémistes,
 colour chart of, 182
Solanum ahrondii, dwarf habit of, 172
Solanum chacoense, dominant white colour
 of tuber of, 29
Solanum commersonii, stellate petals of, 4;
 introduction of blood of, 9; alleged
 mutation of, 24; long berries of, 24;

INDEX

373

- dominant white colour of tuber of, 29; said to be parent of Irish Chief-tain, 268
- Solanum dulcamara*, grafting experiment on, 18
- Solanum edinense*, introduction of blood of, 9; dominant white colour of tuber of, 21, 29; failure to induce mutation in, 24; hybrid for low cropping, 32; freely flowering, 89; chromosome number of, 113; behaviour towards attacks of *Phytophthora infestans*, 118
- Solanum jamesii*, dominant white colour of tuber of, 29
- Solanum maglia*, introduction of blood, 9; mutations of, 24; leaf index of, 166; stigma of, 185
- Solanum nigrum*, Maule's views on, 18
- Solanum utile*, resistance to virus diseases of, 10; long berries of, 24; dominant white colour of tuber of, 29; pure for low cropping, 32; crop inhibitors of, 71; chromosome number of, 113; immunity of to *Phytophthora infestans*, 118; dwarf type of, 172; photograph of, Pl. III, fig. 1
- Solanum verrucosum*, failure to induce mutation of, 24
- Solanum xanthocarpum*, pollen used to test condition of potato stigmata, 132
- Sperling, E., 107
- Speckermann, A., 34
- Spindle tuber*, effect on tubers, 76
- Sprain*, resistant and susceptible varieties to, 121
- Sprouting of tubers*, effect on yield, 88
- Sprouts*, aid to classification, 49, 194; inhibitory action of apical sprout, 87; colour of, 194; thickness of, 195; hairiness of, 195; correlation of colour of, to other structures, 57 *et seq.*
- Starch*, content of tuber, 105; statistical considerations in respect to, 106; varietal differences in content of, 106; regional differences of content of, within the tuber, 105; varietal constancy of content of, 107; comparison of content of, of English and Continental varieties, 107; starch grains, size of, 108
- Stark, 316
- Statistical methods*, determination of probable error, 95; application to yield tests, 95, 337; "Student's method," 340; standard deviation, 341
- Stem of plants*, upright, spreading and prostrate, 173; hard, firm and flexible, 173; wings of, crinkled, straight, 173
- Sterility male*, genetics of, 39, 184; induced by high temperature, 132
- Stevenson, A., 317, 360
- Stewart, F. C., 15, 83, 87, 88
- Stewart, G., 15
- Stipple-streak*, effect on tubers, 76; formerly included under name of "Curl," 122; susceptibility to, 126; carriers of, 126
- Stolons*, relation to yield, tuber-size and maturity, 58; colour of, 187; length of, 187
- Stone cells*, occurrence of, 113; varietal distinctions, 113
- Stout, A. B., 39, 185
- Stratton, F. J. M., 95
- Stuart, W., x, 15, 44, 47, 83, 86, 210
- Suberin*, occurrence in wounds, 86
- Sutton, A. W., 11, 19, 21, 118
- Sutton, M. H., ix
- Sutton and Sons, Messrs, ix, 8, 9, 10, 11, 24, 29, 117, 166, 204, 208, 209, 221, 236, 243, 244, 247, 250, 257, 263, 282, 287, 291, 297, 300, 304n., 317, 359, 360
- Synonym Committee, 19, 46, 137
- Synonymity*, definition of, 137; N.I.A.B.'s attitude towards, 137; campaign against, 138; lists of synonyms, 145; *see also Individual Varietal Descriptions*, ch. xxvi, p. 203
- Tasker, J., 302
- Taste*, of cooked tuber, 197; *see also Individual Varietal Descriptions*, ch. xxvi, p. 203
- Tercentenary Conference, 117
- Thiele, E., 18
- Truro*, maturity trials at, 60, 62; yield trials at, 96, 97, 98; differences in ware production at, 101, 102, 255
- Tuber*, genetics of colour of, 28; relation to stolon, 30; shapes of, 30, 189; variations of shape of, 190; influence of soil on shape of, 136; types of colour of, 188; distribution of colour on, 188
- Tunnard, J. J., x, 224
- Tyrosin*, action of, in blackening of potato-tuber flesh, 131
- Tyrosinase*, action on Tyrosin in blackening of potato-tuber flesh, 131
- Utkin, M. S., 118
- Van Luyk, A., 23
- Varieties of potato*, including the names of those which are mentioned in the text, but excluding such as are contained in the lists in ch. xxii, pp. 140-162, as well as such lists of synonyms as are appended to the individual varietal descriptions. The numbers printed in heavy type refer to the varietal descriptions in ch. xxvi, pp. 203-317:

- Varieties of Potato—continued*
- A 1 Sutton's, 115, 360
 - Aberdonian, 116
 - Abundance, 203, 8, 9, 10, 51, 63, 106, 111, 115, 128, 138, 170, 177, Pl. VI, 185, 187, 195, 199, 208, 216, 317, 360
 - Acquisition, 360
 - Adirondack, 205, 49, 63, 115, 170, 195, 199
 - Ally, 206, 53, 62, 63, 99, 115, 119, 127, 128, 132, 134, 166, 167, 169, 191, 195, 198, 199, 218, 286
 - Alnwick Castle, 208, 56, 63, 170, 195, 199, 360
 - America, 209, 49, 61, 62, 96, 97, 98, 99, 100, 101, 102, 113, 115, 121, 131, 169, 177, 192, 195, 199, 287, 339, 357, 358
 - American Excelsior, 359
 - Arnika, 34
 - Arran Chief, 211, 56, 63, 99 n., 104, 109, 121, 126, 128, 166, 167, 170, 174, 181, 195, 199, 261, 292
 - Arran Comrade, 213, 53, 62, 63, 73, 99, 115, 126, Pl. II, 195, 199, 214
 - Arran Consul, 63, 99 n., 115, 195
 - Arran Rose, 214, 29, 51, 63, 115, 169, 195, 337
 - Arran Victory, 215, 53, 63, 113, 116, 126, 170, 193, 194, 195, 199
 - Balcarres, 62, 115
 - Balmoral Castle, 63, 360
 - Balvaird, 115
 - Barley Bounty, 217, 50, 63, 73, 78, 82, 115, 125, 126, 170, 195, 199
 - Beauty of Bute, 218, 50, 105, 106, 108, 109, 116, 170, 199
 - Beauty of Hebron, Pink, 219, 7, 24, 52, 63, 113, 169, 181, 182, 189, 191, 195, 199, 204, 244, 268, 359, 360
 - Beauty of Hebron, White (Early Puritan), 220, 24, 52, 63, 192, 195, 199, 202, 360
 - Bell, 237
 - Belle de Fontenay, 109
 - Ben Alt, 63, 116
 - Ben Cruachan, 221, 54, 63, 116, 170, 195, 199, 360
 - Ben Ledi, 116
 - Ben Lomond, 63, 360
 - Berwick Castle, 360
 - Bishop, The, 222, 9, 49, 50, 63, 99 n., 116, 170, 191, 195, 199
 - Bismarck, 23
 - Black Prince, 189, 195
 - Blacksmith, *see* Village Blacksmith
 - Blue Don, 206, 313
 - Blue Victor, 20, 24
 - Bobbie Burns, 63
 - Bohemian Pearl, 217
 - Boston Kidney (Dargill Early), 223, 54, 62, 63, 78, 99, 115, 169, 181, 195, 199
 - Braemar Castle, 63, 360
 - Bravo, 115, 121, 170, 195
 - British Queen, 225, 9, 35, 52, 63, 73, 78, 104, 106, 121, 126, 128, 134, 138, 167, 169, 172, 181, 182, 183, 191, 193, 195, 199, 277, 292
 - Brown Blacks, 7
 - Brown Rocks, 7, 106
 - Bruce, The, 283 n.
 - Buchan Beauty, 63, 116
 - Burbank's Seedling, 10, 113
 - Burnhouse Beauty, 227, 50, 63, 115, 125, 126, 199
 - Bute Blue, 199
 - Cambrria, 116
 - Captain Cook, 63, 116
 - Cardinal, 228, 49, 63, 170, Pl. IX, 186, 187, 195, 199
 - Carisbrooke Castle, 195, 360
 - Carman I, 113
 - Catriona, 229, 53, 63, 117, 169, 195, 199, 239
 - Celt, The, 116
 - Centenary, 360
 - Ceres, 230, 52, 63, 121, 167, 199
 - Champion, 231, 8, 50, 63, 105, 108, 116, 117, 126, 134, 170, 190, 195, 199, 206, 268, 279
 - Champion II, 233, 51, 63, 66, 106, 109, 116, 117, 118, 126, 170, 195, 199
 - Charles Downing, 113
 - Cigarette, 360
 - Cimbala's neue Imperator, 230
 - Clan Alpine, 116
 - Claymore, 116
 - Colossal, 234, 50, 63, 115, 170, 195, 199, 201
 - Congo, 189, 191, 193
 - Conquest, 63, 114, 115
 - Corona, 116
 - Coronation, 235, 55, 62, 115, 169, 199
 - Crimson Beauty, 236, 55, 63, 115, 126, 170, 195, 199
 - Crusader, 237, 9, 52, 63, 115, 126, 169, 177, Pl. VII, 191, 199
 - Cumberland Ideal, 63
 - Cups, 7
 - Dala, 13
 - Darber, 295
 - Dargill Early, *see* Boston Kidney
 - Dargill Gem, 63
 - Dean, The, 238, 53, 63, 170, 183, 195, 199
 - Deodara, 23, 120, 201
 - Discovery, 360
 - Di Vernon, 239, 54, 61, 62, 96, 97, 98, 99, 100, 101, 102, 115, 169, 177, Pl. VI, 195, 199, 229, 339, 357, 358
 - Dominion, 63, 116, 170, 179, 195
 - Dover Castle, 63, 360
 - Dreadnought, 195
 - Drummond Castle, 63, 360
 - Duchess of Connaught, 360

INDEX

375

- Varieties of Potato—continued*
- Duke of York, 241, 10, 33, 39, 55, 60, 61, 62, 96, 97, 98, 99, 100, 101, 102, 121, 126, 128, 132, 134, 135, 160, 177, 181, 188, 192, 195, 199, 201, 269, 339, 357, 358
 - Dundarave, 63, 116
 - Dunottar Castle, 195, 360
 - Dunvegan, 243, 54, 62, 94, 99, 115, 160, 195, 199, 339, 354, 355, 357, 358, 360
 - Earl of Essex, 116
 - Early Border, 359
 - Early Manistee, 199
 - Early Market, 244, 9, 54, 62, 63, 99, 115, 126, 169, 195, 199, 359
 - Early Pink Champion, 62, 115, 195
 - Early Regent, 9, 63, 73, 111, 250, 263, 359, 360
 - Early Rose, 7, 8, 10, 11, 23, 27, 109, 111, 195, 201, 202, 206, 210, 219, 282, 359
 - Edgecote Purple, 246, 51, 63, 70, 73, 125, 126, 170, 179, 199
 - Edinburgh Castle, 247, 56, 63, 170, 199, 360
 - Edinchip, 63, 116
 - Edzell Blue, 248, 10, 51, 63, 70, 73, 115, 128, 169, 181, 195, 199
 - Eigenheimer, 121, 230
 - Eightyfold, 249, 50, 51, 63, 170, 195, 199, 360
 - Eldorado (Evergood), 9, 107
 - Elephant, 291, 360
 - Entente Cordiale, 63
 - Epicure, 250, 9, 10, 21, 30, 54, 57n., 61, 62, 83, 94, 96, 97, 98, 99, 100, 101, 102, 126, 128, 130, 134, 166, 169, 181, 195, 199, 339, 357, 358, 360
 - Erste von Frondesdorf, 295
 - Etoile du Nord (Roode Star), 252, 52, 63, 120, 121, 170, 199, 201
 - Evergood, 253, 9, 33, 45, 56, 63, 104, 107, 117, 128, 134, 170, 195, 199
 - Farish's Pink Champion, 63
 - Farmer's Glory, 206
 - Favourite, 359, 360
 - Fenn's Bountiful, 297, 359
 - Field Ashleaf, 359
 - Fieldmarshal, 255, 23, 25, 49, 63, 99n., 128, 170, 188, 195, 199, 313
 - Fiftyfold, 63, 359
 - Fillbasket, 263, 359, 360
 - First and Best, 359
 - Flecken, 18
 - Flourball, Sutton's, 256, 10, 29, 37, 51, 63, 66, 73, 89, 116, 170, 183, 190, 191, 193, 195, 199, 212, 217, 233, 360
 - Flourball, Red (Old), 117, 257
 - Footprint, 63, 116
 - Fortyfold, 25, 63, 190, 273
 - Fox's Seedling, 204, 244, 359
 - Garden Favourite, 63, 360
 - Garnet Chili, 7, 10, 27, 219
 - Gawkies, 7
 - Geheimrat Appel, 18
 - General, 258, 19, 23, 51, 52, 63, 200, 295
 - Giant Blue, 88, 108
 - Gigantic, 259, 63, 116, 170, 195, 200
 - Gladiator, 360
 - Glenalmond, 116
 - Glencoe, 195
 - Glenmaid, 116
 - Gold Coin, 113, 360
 - Golden Las, 63, 116
 - Golden Marvel, 63, 116
 - Golden Wonder, 260, 19, 37, 48, 50, 63, 73, 99n., 114, 116, 125, 126, 128, 134, 170, 172, 187, 188, 195, 200, 255, 278, 311
 - Gordon Castle, 360
 - Great Scot, 261, 10, 19, 25, 54, 62, 63, 83, 99, 104, 110, 115, 124, 126, 128, 169, 172, 174, Pl. V, 181, 183, 188, 190, 195, 196, 200, 201, 211, 292, 302
 - Green Mountain, 10, 47, 94, 113, 170
 - Gregor Cups, 63
 - Grigor Cup, 7
 - Ham Red, 185
 - Hammersmith, 340
 - Harbinger, 263, 55, 62, 169, 196, 200, 360
 - Harlech Castle, 63, 360
 - Harlequin, 20, 25, 359
 - Heavy Weight, 113
 - Herd Laddie, 264, 56, 63, 170, 200
 - Hibernia, 63
 - Hindenberg, 34, 120
 - Ideal, 360
 - Immune Ashleaf, *see* Juli
 - Imperator, 11, 63
 - Improved six weeks Kidney, 107
 - Income, 116
 - Industrie, 265, 16, 54, 63, 121, 170, 196, 200, 201
 - International Kidney, 266, 55, 56, 57n., 61, 63, 115, 135, 170, 188, 196, 200, 201
 - Invincible, 360
 - Irish Chieftain, 267, 49, 63, 109, 116, 117, 126, 170, 194, 196, 200
 - Irish Cobbler, *see* America
 - Irish Queen, 63, 116
 - Irish Strain, 116
 - Irish Up-to-Date, 104
 - Irish Whites, 7
 - Isis, 63
 - Jeannie Deans, 204n.
 - John Bull, 63, 314
 - Joseph Rigault, 270
 - Jubel, 119, 120
 - Juli, 269, 11, 45, 53, 61, 63, 96, 97, 98, 99, 100, 101, 102, 111, 115, 120,

- Varieties of Potato—continued*
- 126, 128, 169, 196, 200, 202, 209, 287, 338, 339, 340, 341, 354, 357, 358
 - K. of K., 271, 54, 62, 63, 99, 115, 170, 183, 196, 200, 286
 - Katie Glover, 272, 55, 63, 115, 126, 169, 172, 179, 189, 191, 196, 200, 239
 - Keay's Champion, 63, 116
 - Kepplestone's Kidney, 63
 - Kerr's Pink, 273, 52, 63, 66, 73, 84, 99 n., 116, 121, 126, 134, 170, 179, 196, 200, 201
 - King Edward VII, 274, 10, 13, 20, 25, 33, 56, 61, 63, 83, 99 n., 104, 110, 111, 113, 121, 126, 128, 132, 134, 170, 183, 185, 189, 195, 196, 198, 200, 201, 276
 - King Edward VII (Red), 276, 25, 56, 63, 170, 196, 200
 - King George V, 277, 52, 62, 63, 78, 99, 104, 115, 126, 128, 169, 182, 191, 196, 200, 225
 - King of the Earlies, 10
 - King of the Russets, 116
 - Kuckuck, 18
 - Lady Truscott, 359
 - Langworthy, 278, 19, 48, 50, 63, 114, 116, 125, 128, 188, 196, 200, 237, 255, 311, 317, 360
 - Late Rose, 283 n., 297, 359
 - Leather Coats, 7
 - Leinster Wonder, 279, 30, 51, 63, 73, 110, 116, 170, Pl. V, 183, 187, 189, 200, 256
 - Liddesdale Lads, 116
 - Lochar, 280, 52, 63, 113, 116, 125, 126, 170, 196, 200
 - Long Blue, 63
 - Lord Rosebery, 63, 179
 - Lord Scone, 115
 - Lord Tennyson, 281, 50, 63, 196, 200
 - McCormick's Seedling, 113
 - Magdeburger Blaue, 18
 - Magnet, 359
 - Magnificent, 63
 - Magnum Bonum, 282, 1, 8, 9, 13, 49, 50, 63, 111, 117, 119, 120, 133, 170, 200, 201, 204, 206, 250, 317, 359, 360
 - Maincrop, 298
 - Main's Surprise, 63, 115
 - Majestic, 284, 9, 51, 63, 73, 86, 99 n., 115, 126, 128, 132, 167, 170, 184, 191, 195, 196, 200
 - Marjolin, 109, 201
 - Marquis of Bute, 286, 53, 63, 115, 170, 193, 196, 200
 - Marvel, 179
 - Marvel of America, 109
 - Massie, The, 63, 115
 - Matchless, 359
 - Mauve Queen, 63, 115
 - May Queen, 287, 10, 45, 49, 50, 61, 62, 85, 96, 97, 98, 99, 100, 101, 102, 121,
- Varieties of Potato—continued*
- 134, 135, 181, 183, 196, 200, 209, 339, 357, 358, 360
 - Mein's Early Round, 63
 - Millar's Beauty, 63, 116, 179
 - Mr Bressee, 288, 55, 63, 115, 169, Pl. V, 196, 200, 214
 - Mühlhäuser, 107, 120
 - Myatt's Ashleaf, 289, 7, 13, 28, 30, 35, 50, 51, 63, 89, 111, 134, 169, 188, 190, 196, 200, 201, 223, 269, 300, 310, 360
 - Myatt's Seedling, 90
 - Niere, 119, 120
 - Ne Plus Ultra, 360
 - Ninetyfold, 291, 9, 10, 55, 61, 62, 83, 85, 96, 97, 98, 99, 100, 101, 102, 120, 123, 167, 169, 196, 200, 206, 339, 354, 357, 358, 360
 - Nithsdale, 292, 53, 62, 63, 73, 78, 99, 115, 169, 196, 200
 - Nonesuch, 62, 359
 - Norna, 293, 56, 63, 115, 170, 196, 200
 - Northern Invincible, 117
 - Northern Star, 294, 9, 55, 63, 116, 170, 196, 359
 - Oban Beauty, 115
 - Ohio, 113
 - Old Falmouth, 206
 - Old Ashleaf, 359
 - Oliver's Kidney, 63
 - Ox Noble, 6, 134
 - Paragon, 63
 - Paterson's Victoria, 8, 10, 11, 204 n., 206, 212, 282, 283 n., 291, 313, 359, 360
 - Peachblow, 113, 205
 - Pearl, The, 20, 25, 113
 - Peerless, 10, 27, 63
 - Perfection, 359
 - Pflückmaus, 270
 - Pink Beauty, 206
 - Pink Pearl, 116
 - Pride of the Valley, 105
 - Prizetaker, 359
 - President (Paul Kruger), 295, 11, 19, 23, 28, 35, 49, 63, 73, 104, 108, 110, 111, 121, 123, 170, 187, 196, 200, 201, 258, 311
 - Professor Gerlach, 23, 120
 - Professor Maercker, 33
 - Prolific, 10
 - Purple Champion, 116
 - Purple Eye, 63, 193, 196, 200
 - Quarantine de la Halle, 109
 - Quarantine Violet, 170
 - Queen of the Valley, 217
 - Queen of the Veldt, 63
 - Ranfurly Red, 116
 - Reading Abbey, 359
 - Reading Hero, 359
 - Reading Regent, 9
 - Reading Ruby, 359

INDEX

377

- Varieties of Potato—continued*
- Reading Russet, 297, 29, 37, 51, 63, 120, 169, 196, 200, 359
 - Rector, 298, 49, 63, 116, 170, 200, 222, 310
 - Rector of Woodstock, 9, 20, 25, 359
 - Red Cup, 7
 - Red Fir Apple, 37
 - Red Kemps, 7, 63
 - Red Kidney, 360
 - Reliance, 360
 - Richter's Early Variety, 265
 - Richter's Imperator, 109, 201, 295
 - Rhoderick Dhu, 299, 53, 63, 99 n., 116, 126, 167, 170, 183, 196, 200
 - Ringleader, 300, 55, 62, 169, 196, 200
 - Rough Purple Chili, 7, 10, 27
 - Royal Kidney, 301, 56, 63, 169, 196, 200, 202
 - Royal Salute, 63
 - Royal Stewart, 63, 116
 - Rule Britannia, 63
 - Rural New Yorker, 10, 94, 113, 131
 - Rural No. 1, 113
 - Russet Burbank, 113
 - Russet Rural, 113
 - Rye Croft Purple, 63, 170, 196
 - Satisfaction, 63, 196
 - Saucisse Rouge, 109
 - Schoolmaster, 63, 115, 206
 - Scottish Blue, 204 n.
 - Scottish Chief, 116
 - Scottish Triumph, 8, 313
 - Sefton Wonder, 302, 19, 25, 54, 63, 115, 169, 188, 196, 200, 261
 - Shamrock, 63, 116
 - Sharpe's Express, 303, 54, 61, 63, 96, 97, 98, 99, 100, 101, 102, 113, 126, 128, 134, 135, 166, 169, Pl. V, 196, 200, 201, 223, 339, 341, 354, 355, 357, 358
 - Sharpe's Victor, 305, 29, 33, 35, 45, 53, 62, 169, 176, 194, 196, 200, 201, 360
 - Silver Skins, 7
 - Sim's Early Victory, 196
 - Simson, 265
 - Sir John Llewelyn (Eclipse), 306, 45, 53, 63, 120, 121, 128, 134, 169, 174, 196, 200, 360
 - Skerry Blue, 108, 206
 - Smith's Early, 273
 - Snowdrop, Resistant, 307, 10, 34, 55, 61, 63, 73, 96, 97, 98, 99, 100, 101, 102, 114, 115, 127, 128, 169, 181, 187, 196, 200, 223, 338, 339, 357, 358
 - Snowflake, 300, 359
 - Southesk, 63, 116
 - Spaulding Rose, 113
 - Spaulding No. 4, 131
 - Spion Kop, 116
 - Stirling Castle, 170, 196, 360
 - Summit, 63
 - Superba Irish, 113
- Varieties of Potato—continued*
- Superlative, 360
 - Supreme, 116, 360
 - Surprise, 309, 50, 51, 63, 170, 196, 200
 - Sutton's Ashleaf, 359
 - Sutton's Early Eclipse, 359
 - Sutton's Seedling, 359
 - Templar, 310, 9, 37, 51, 63, 73, 116, 126, 170, Pl. II, 179, 187, 196, 200
 - Tinwald Perfection, 311, 23, 49, 50, 62, 63, 99, 115, 126, 132, 134, 170, 196, 200, 317
 - Titan, 63
 - Towse, The, 312, 49, 63, 73, 115, 169
 - Triumph, 83, 113, 230, 359
 - Up-to-Date, 313, 8, 10, 13, 14, 16, 19, 23, 25, 34, 39, 46, 47, 49, 63, 83, 90, 104, 106, 107, 108, 110, 111, 119, 120, 126, 128, 131, 133, 138, 167, 170, Pl. VIII, 181, 183, 185, 188, 191, 196, 197, 200, 201, 202, 222, 255, 268, 311, 317, 360
 - Utility, 316, 55, 63, 116, 170, 196, 200
 - Village Blacksmith, 63, 187, 196, 206
 - Violette du Forez, 48
 - Warwick Castle, 196, 360
 - White Arran Victory, 116
 - White City, 317, 49, 50, 63, 116, 170, 196, 200, 360
 - White Elephant, 359, 360
 - White Rocks, 7, 8
 - White Rose, 113
 - Wild Rose, 115
 - Wilhelm Korn, 295
 - Windsor Castle, 170, 196, 359, 360
 - Woodstock Kidney, 9, 359
 - Yam, The, 6, 7, 14, 63, 124, Pl. VIII
 - Yellows, 7
 - Zeeland Blue, 23
- Variety of potato, see also Individual Varietal Descriptions, ch. xxvi, p. 203; definition of, 1; list of distinct varieties, 140; list of synonymous varieties, 145*
- Vavilov, N., 166
- Veenhuizen, G., 295
- Veerkamp, H., 230
- Verne, Cl., 24
- Vigour*, relation to crop, 71; of plant, 172; relation to heterosis, 26
- Vilmorin, P. de, 24, 44, 283
- Vilmorin-Andrieux et Cie, MM., 11
- Virus diseases, see also under Individual Varietal Descriptions, ch. xxvi, p. 203; definition of, 122; resistance to, 35, 124; a national danger, 90 n.; fallacies in yield trials induced by, 92; commonly called "Curl," 122; carriers of, 124; see also under Leaf Roll, Mosaic and Stipple Streak*
- Vitamins, presence of, in fresh and prepared potato products, 110

378

INDEX

- Wallace, Sir M., Bt, 85
Ware, relation to size of seed, 79; production of, a varietal feature, 100
Wart Disease, *see also under Individual Varietal Descriptions*, ch. xxvi, p. 203; influence on production of new varieties by, 10; genetics of immunity to, 34, 115; lists of approved immune varieties, 115
Whipple, O. B., 15, 20, 76
Wilde, 246
Wildings, description of, 127; leaf index of, 128; varieties in which they commonly occur, 128
Williams, Miss, 279
Williamson, J. F., x, 279
Wilson, Dr J. H., 9, 222, 237, 238, 298, 310
Wilson, J., x, 298
Winkler, H., 18, 19
Wisley Gardens, specimens from, for leaf-index determinations, 166
Wolfe, J., 227
Wollenweber, H. W., x, 119, 120n., 131, 202
Wood, T. B., 95
Wotherspoon, Donald and Graham, Messrs, 237
Wright, R. C., 131
Wye, trial of immature seed at, 84
Yield, genetic factors influencing, 31, 64; relation to flowering and berries, 89; list of varieties whose yields have been accurately tested, 99; relation to maturity, 101
Yield trials, requirements for, 91; size of plot, 92; number, shape of, and arrangement of plots, 93; interference effects in, 93; standard of accuracy of, 99; N.I.A.B. trials, 96–99; working of an N.I.A.B. trial *in extenso*, App. II, 337
Yule, G. U., 353n.