AUTHOR INDEX

AdamEP
Adams, E. P.
Effect of soil compaction on development and yield of sugar beets 11(3) 256

AfanMM
Afanasiev, M. M.
Testing of inbred lines of sugar beets for resistance to Aphanomyces, Rhizoctonia and Fusarium root rots 11(6) 542
Simulated hail injury to sugar beets 11(3) 196

AlleHP
Alley, H. P.
The effects of dalapon on pectic substances and on root growth of sugar beets 11(5) 365
Movement and persistence of endothal (3,6-endoxohexahydrophthalic acid) as influenced by soil texture, temperature, and moisture levels 11(4) 287

AssalG
Assalini, G.
Ion exchange process for beet sugar refining I. Purification of beet diffusion juice 11(4) 341
Ion exchange process for beet sugar refining II. Purification of sugar solutions 11(4) 349

BandJD
Bande, J. D.
An investigation of the effects of various methods of herbicide application on weed control in sugar beets 11(2) 151
Further studies on the control of weeds in sugar beets with herbicides 11(2) 160

BarbRD
Barbour, Royal D.
Carbohydrate metabolism of sugar beets I. Respiratory catabolism of mono and disaccharides 11(5) 436
Carbohydrate metabolism of sugar beets II. Catabolic pathways for acetate, glyoxylate, pyruvate, glucose and gluconate 11(5) 443

BarmRD
Barmington, R. D.
Planter tests and seed preparation using monogerm sugar beet seed 11(6) 469

BennCW
Bennett, C. W.
Acquisition and transmission of curly top virus by artificially fed beet leafhoppers 11(8) 637

BennWH
Bennett, William H.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization 11(7) 547

BergeP
Bergen, P.
An improved method for the evaluation and selection of sugar beets (Beta vulgaris L.) I. The selection of individual plants 11(8) 668
An evaluation of insecticides for control of the sugar beet root maggot in southern Alberta 11(6) 485
A comparison of methods of applying heptachlor for control of the sugar beet root maggot in southern Alberta 11(6) 491

BlakGR
Blake, G. R.
Effect of soil compaction on development and yield of sugar beets 11(3) 256

BoawLC
Boawn, Louis C.
Yield and zinc content of sugar beets as affected by nitrogen source, rate of nitrogen, and zinc application 11(4) 279

BoedDH
Boelster, D. H.
Effect of soil compaction on development and yield of sugar beets 11(3) 236

BohmDW
Bohmert, D. W.
The effects of dalapon on pectic substances and on root growth of sugar beets 11(5) 365
Movement and persistence of endothal (3,6-endoxohexahydrophthalic acid) as influenced by soil texture, temperature, and moisture levels 11(4) 287
<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brandoli, G.</td>
<td>Ion exchange process for beet sugar refining I. Purification of beet</td>
<td>11</td>
<td>4</td>
<td>341</td>
</tr>
<tr>
<td></td>
<td>diffusion juice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ion exchange process for beet sugar refining II. Purification of sugar</td>
<td>11</td>
<td>4</td>
<td>349</td>
</tr>
<tr>
<td></td>
<td>solutions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brewbaker, H. E.</td>
<td>Development of monogerm varieties of sugar beets by the backcross method</td>
<td>11</td>
<td>5</td>
<td>252</td>
</tr>
<tr>
<td>Burton, Francis C.</td>
<td>An examination of the effectiveness of various sanitizing agents against yeasts isolated from liquid sugar and sucrose-corn syrup blends</td>
<td>11</td>
<td>6</td>
<td>399</td>
</tr>
<tr>
<td>Bush, H. L.</td>
<td>Comparison of statistical designs for a large number of entries of sugar beet strains</td>
<td>11</td>
<td>4</td>
<td>306</td>
</tr>
<tr>
<td>Cames, R. D.</td>
<td>Movement and persistence of endothal (3,6-endoxohexahydrophthalic acid) as influenced by soil texture, temperature, and moisture levels</td>
<td>11</td>
<td>4</td>
<td>287</td>
</tr>
<tr>
<td>Comes, R. D.</td>
<td>Development of air conditioned, compartmented greenhouse</td>
<td>11</td>
<td>1</td>
<td>44</td>
</tr>
<tr>
<td>Crawford, C. E.</td>
<td>Use of unit block selection method for yield, sugar and purity in sugar beets</td>
<td>11</td>
<td>4</td>
<td>323</td>
</tr>
<tr>
<td>Coudriet, D. C.</td>
<td>Beet leafhopper control in sugar beets by seed or soil treatment</td>
<td>11</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>Crawford, C. L.</td>
<td>Yield and zinc content of sugar beets as affected by nitrogen source, rate of nitrogen, and zinc application</td>
<td>11</td>
<td>4</td>
<td>279</td>
</tr>
<tr>
<td>Davis, J. F.</td>
<td>The effect of phosphorus fertilization and time of application on chemical composition of foliage and on yield, sucrose content and percent purity of sugar beet roots</td>
<td>11</td>
<td>5</td>
<td>406</td>
</tr>
<tr>
<td></td>
<td>An analysis of production practices of sugar beet farmers in Michigan, 1958</td>
<td>11</td>
<td>4</td>
<td>313</td>
</tr>
<tr>
<td>Doversheim, Howard E.</td>
<td>Experimental control of the beet leafhopper on sugar beets grown for seed</td>
<td>11</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Dudley, John W.</td>
<td>Population genetic studies on sodium and potassium in sugar beets (Beta vulgaris L.)</td>
<td>11</td>
<td>2</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>Effects of sodium 2, 3-dichloroisobutyrate, a selective gametocide, on sugar beets</td>
<td>11</td>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>Duffus, James E.</td>
<td>Effects of beet western and beet yellows viruses on amino acids in sugar beet</td>
<td>11</td>
<td>7</td>
<td>629</td>
</tr>
<tr>
<td>Eis, F. G.</td>
<td>Determination of microorganisms in sugar products by the Millipore method</td>
<td>11</td>
<td>2</td>
<td>197</td>
</tr>
<tr>
<td></td>
<td>Effects of beet western and beet yellows viruses on amino acids in sugar beet</td>
<td>11</td>
<td>7</td>
<td>629</td>
</tr>
<tr>
<td></td>
<td>Changes in the concentration of amino acids in sugar beet plants induced by virus yellows</td>
<td>11</td>
<td>4</td>
<td>327</td>
</tr>
<tr>
<td>Frakes, M. G.</td>
<td>An analysis of production practices of sugar beet farmers in Michigan, 1958</td>
<td>11</td>
<td>4</td>
<td>313</td>
</tr>
</tbody>
</table>
Gaskill, John O.
Tests of foreign introductions of Beta vulgaris L. for resistance to Aphanomyces cochenilleoides Drechs. and Rhizoctonia solani Kuehn
11(8) 656

Artificial exposure of sugar beets to Rhizoctonia solani
11(7) 573

Some chemical aspects of resistance to Cercospora leaf spot in sugar beets
11(6) 457

Goodban, A. E.
Effects of sugar beet nitrogen on juice purification
11(6) 533

Some effects of virus yellows on sugar beet processing quality
11(2) 164

Greenwood, Delbert A.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization
11(7) 547

Griffin, Gerald D.
Evaluation of Telone and D-D in relation to planting time and following for control of sugar beet nematode, Heteroder a schachtii Schmid t
11(6) 515

Halden, H. E.
Determination of microorganisms in sugar products by the Millipore method
11(2) 137

Hallbeck, R. E.
Preparation of melibiose-invertase for sugar beet molasses assay of raffinose
11(4) 302

Hanzas, P. C.
Saponin survey of various factories of the 1958 campaign
11(6) 519

Harper, A. M.
An evaluation of insecticides for control of the sugar beet root maggot in southern Alberta
11(6) 485

A comparison of methods of applying heptachlor for control of the sugar beet root maggot in southern Alberta
11(6) 491

Harris, L.
Incidence of Rhizoctonia crown rot of sugar beets in irrigated crop rotation
11(2) 128

Harrison, Merle
Some chemical aspects of resistance to Cercospora leaf spot in sugar beets
11(6) 457

Heiner, Sylvester M.
The design, operation and economic evaluation of a gas-fired lime kiln
11(2) 168

Hepworth, H. M.
The effects of dalapon on pectic substances and on root growth of sugar beets
11(5) 365

Hills, F. J.
Combinations of specific fungicides for sugar beet seed treatment
11(1) 75

Hills, Orin A.
Beet leafhopper control in sugar beets by seed or soil treatment
11(1) 15

Hoff, John C.
Northern California sugar beet quality survey
11(4) 358

Hogaboam, G. J.
Plastic chambers for humidity and temperature control in vegetative propagation and growth of sugar beets
11(8) 661

Radiographing as a method of observing some seed characters in monogerm sugar beet fruits
11(7) 605

Hurst, Rex L.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization
11(7) 547

Impey, C. Walter
Development of air conditioned, compartmented greenhouse
11(1) 41
Jensen, L. T.
Bulk and liquid sugar production at the Brookfield (Chicago) Terminal... 11(2) 143

Jewell, H. K.
Beet leafhopper control in sugar beets by seed or soil treatment... 11(1) 15

Johnson, Harvey P. H.
President's message... 11(1) 1

Johnson, J. R.
The occurrence and elimination of saponin in process juice... 11(3) 201
The role of nitrates in promoting high ash values in white sugar... 11(3) 258

Johnson, R. T.
Germination-emergence of sugar beet seed as affected by treatment and storage... 11(8) 649
Studies on backcross generations and advanced generations of interspecific hybrids between B. vulgaris and B. webbiana... 11(5) 429

Jones, G. E.
An investigation of the effects of various methods of herbicide application on weed control in sugar beets... 11(2) 151
Further studies on the control of weeds in sugar beets with herbicides... 11(2) 160

Jorgenson, Edsel C.
Evaluation of Telone and D-D in relation to planting time and following for control of sugar beet nematode, Heteroderia schachtii Schmidt... 11(6) 515

Knowles, R. E.
The Impingatron seed treater... 11(3) 189

Kohn, R. W.
Saponin survey of various factories of the 1958 campaign... 11(6) 519

Leach, A. D.
Combination of specific fungicides for sugar beet seed treatment... 11(1) 75

LeBaron, Homer M.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization... 11(7) 547

Leatham, D. D.
Preparation of melibiose-invertase for sugar beet molasses assay of raffinose... 11(4) 302
Determination of microorganisms in sugar products by the Millipore method... 11(2) 187

Lilly, C. E.
An evaluation of insecticides for control of the sugar beet root maggot in southern Alberta... 11(6) 485
A comparison of methods of applying heptachlor for control of the sugar beet root maggot in southern Alberta... 11(6) 491

Lyda, Stuart D.
Simulated hail injury to sugar beets... 11(5) 196

MacWhitney, H. S.
In vitro inoculation of sugar beet seedlings with Aphanomyces cochlioides Drechs... 11(4) 309

McAllister, DeVere R.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization... 11(7) 547
Owen IV
Owen, F. V.
Increased yield and purity of hybrids from the Ovama fodder beet 11(1) 506
New hybrid sugar beet varieties for California 11(6) 498
Interaction of components of impurity and location in hybrids from inbred lines of sugar beets 11(1) 37
PaynMG
Payne, Merle G.
Some chemical-genetic studies pertaining to quality in sugar beets (Beta vulgaris L.) 11(7) 610
Some chemical aspects of resistance to Cercospora leaf spot in sugar beets 11(6) 457
PetoHJ
Peterson, Donald F.
Effect of gibberellic acid on sucrose, purity and weight of sugar beets 11(4) 320
Use of unit block selection method for yield, sugar and purity in sugar beets 11(4) 323
PetoFH
Peto, F. H.
Processing monogerm seed 11(4) 334
PiecVG
Pierson, Victor G.
Artificial exposure of sugar beets to Rhizoctonia solani 11(7) 574
PowelR
Powell, R.
Some chemical-genetic studies pertaining to quality in sugar beets (Beta vulgaris L.) 11(7) 610
Population genetic studies on sodium and potassium in sugar beets (Beta vulgaris L.) 11(2) 97
PriceF
Price, Frank
A continuous sugar centrifugal 11(3) 248
RemmEF
Remmenga, E. E.
Some chemical-genetic studies pertaining to quality in sugar beets (Beta vulgaris L.) 11(7) 610
RoreFS
Roren, E. S.
Compositional changes in diffusion juices from stored sugar beets 11(3) 206
RushGF
Rush, George E.
Evaluation of combining ability in self-fertile lines of sugar beets using male-sterile testers 11(2) 173
RyseGK
Ryser, George K.
Increased yield and purity of hybrids from the Ovama fodder beet 11(7) 565
Interaction of components of impurity and location in hybrids from inbred lines of sugar beets 11(1) 37
SaviHI
Savitsky, Helen
Viable diploid, triploid and tetraploid hybrids between Beta vulgaris and species of the section Patellares 11(3) 215
Metabolism in an F1 hybrid between a Turkish wild beet (Beta vulgaris, sp. maritima) and Beta procumbens 11(1) 49
SaviVF
Savitsky, V. F.
Sucrose and weight of root in tetraploid monogerm and multigerm sugar beet populations under different mating systems 11(8) 676
SchlRA
Schleusener, Richard A.
Hailstorm damage to crops in northeastern Colorado and an analysis of precipitation anomalies associated with a cloud-seeding program in 1959 11(5) 413
SchmCL
Schneider, C. L.
Tests of foreign introductions of Beta vulgaris L. for resistance to Aphano- myces raphanidum Dresch. and Rhizoctonia solani Kuhn 11(8) 656
SchkKW
Schoenrock, Karlheinz, W. R.
The role of nitrates in promoting high ash values in white sugar 11(3) 258
Schuster, M. L.
Incidence of Rhizoctonia crown rot of sugar beets in irrigated crop rotation... II(2) 128

Sexsmith, J. J.
Chemical control of wild oats (Avena fatua L.) in sugar beets... II(3) 268

Sharp, E. L.
Testing of inbred lines of sugar beets for resistance to Aphanomyces, Rhizoctonia and Fusarium root rots... II(6) 542

Smith, C. H.
Interaction of components of impurity and location in hybrids from inbred lines of sugar beets... II(1) 37

Smith, P. B.
Development of air conditioned, compartmented greenhouse... II(1) 44

Stark, J. B.
The composition of beet molasses with particular reference to nitrogenous compounds... II(6) 507

Steele, Arnold E.
Effect of Naham solutions on the emergence of larvae from cysts of Heterodera schachtii Schmidt... II(6) 538

Stout, Myron
Increased yield and purity of hybrids from the Ovana fodder beet... II(7) 505
A new look at some nitrogen relationships affecting the quality of sugar beets... II(5) 388
Interaction of components of impurity and location in hybrids from inbred lines of sugar beets... II(1) 37

Switzer, C. M.
An investigation of the effects of various methods of herbicide application on weed control in sugar beets... II(2) 151
Further studies on the control of weeds in sugar beets with herbicides... II(2) 160

Teranishi, R.
Effects of sugar beet nitrogen on juice purification... II(6) 533
Some effects of virus yellows on sugar beet processing quality... II(2) 164

Thurlow, Don
The effect of phosphorus fertilization and time of application on chemical composition of foliage and on yield, sucrose content and percent purity of sugar beet roots... II(5) 406

Ulrich, Albert
Variability of sugar beet plants grown in pots without competition for light, water and nutrients... II(7) 595
Variety climate interactions of sugar beet varieties in simulated climates... II(5) 376
Preparation and storage of beet pulp samples for sucrose analysis... II(1) 68

Valcarce, A. C.
Beet leafhopper control in sugar beets by seed or soil treatment... II(1) 15

Viegas, Frank G., Jr.
Yield and zinc content of sugar beets affected by nitrogen source, rate of nitrogen, and zinc application... II(4) 279

Viglierchio, David R.
Heterodera schachtii, hatching properties of field importance... II(4) 291
Wang, C. H.
Carbohydrate metabolism of sugar beets I. Respiratory catabolism of mono and disaccharides
Carbohydrate metabolism of sugar beets II. Catabolic pathways for acetate, glyoxylate, pyruvate, glucose and gluconate

Wheatley, G. W.
Germination-emergence of sugar beet seed as affected by treatment and storage
Studies on backcross generations and advanced generations of interspecific hybrids between B. vulgaris and B. weberiana

Wood, R. R.
Selection of sugar beets for tolerance to endothal herbicide
Development of air conditioned, compartmented greenhouse

Woolley, Donald G.
The variability of sugar beet constituents as influenced by year, location, variety, and nitrogen fertilization