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Bibliographies
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of Agriculture
Number 64

Plant Growth Regulators for Higher Plants, January 1979– February 1988

Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations



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**Compiled and Edited by Charles N. Bebee
National Agricultural Library**

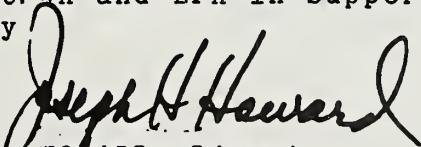
FOREWORD

This is the 18th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

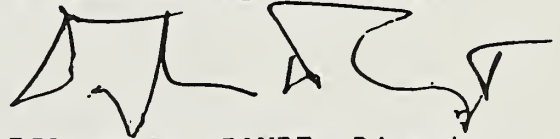
This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from U.S. publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community



JOSEPH H. HOWARD, Director
National Agricultural Library



DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

The citations in this bibliography are selected from works by U.S. authors on plant growth regulators. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the database compiled by the National Agricultural Library.

This is the 19th bibliography included in a series jointly sponsored by the National Agricultural Library, U.S. Department of Agriculture (USDA-NAL), and the Science Support Branch, Benefits and Use Division, Office of Pesticide Programs, U.S. Environmental Protection Agency (EPA-OPP). Recent volumes in this series include The Protection of Sugarcane and Sugar Beets. Bibliographies planned for the current year include. The Protection of Hays, The Protection of Citrus, The Protection of Turf Grasses, The Protection of Root Vegetables, The Protection of Leafy Green Vegetables, and The Protection of Rice.

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RESEARCH

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Menz, K.M. Neumeyer, C.F. St. Paul, Minn., The Department. Extract: Scientists were surveyed as part of an assessment of five emerging biotechnologies which are potentially applicable to commercial U.S. maize production by the year 2000. The largest gains expected by scientists were from plant growth regulators, followed by photosynthetic enhancement, cell or tissue culture and biological nitrogen fixation. Staff paper P - University of Minnesota, Dept. of Agricultural and Applied Economics. Sept 1981. Sept 1981. (P81-28). 9 p. 1 ref. (NAL Call No.: HD1761.A1M5).

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Chemical plant growth regulation in world agriculture (Strategies for increasing crop production for food, feed, and energy).

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Abstract: A reference for citrus fruit growers, handlers, packing-house workers, exporters, food technology students, and citrus scientists presents a comprehensive treatise on citrus fruits that are destined for fresh markets. The 22 text chapters present authoritative reviews and guidelines prepared by experts in the various areas of citrus fruit science and technology. Topics include: citrus fruit anatomy, morphology, physiology, and maturation; maturity and grade standards; the effect of production practices on fresh fruit quality; growth regulators for improving postharvest quality; the characteristics of fresh fruit cultivars; production trends in the US and 7 other countries; fruit harvesting techniques; product transport to packing houses; the coordination of fresh fruit and processing outlets; degreening methods; systems for separating and grading freeze-damaged fruit; machinery for packing lines and its application; postharvest fruit diseases and their control; preharvest, maturity, and postharvest related disorders; methods of washing, waxing, and adding color to fruits; packaging materials and unitization methods; regulations concerning fruit pests; allowable pesticide tolerances; characteristics of transportation of fruits to markets; citrus fruit storage; projections for world trade in citrus fruits; and energy usage, monitoring, and control in citrus fruit packing. References cited are appended to each of the chapters, and numerous figures and tabular data are presented throughout the text. xix, 571 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: DNAL HD9259.C52F74).

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Effects of plant growth regulators and their interactions on respiration, ethylene evolution, color development, peroxidase activity, and peroxidase isoenzyme pattern of detached tomatoes / by Shue-Cheng Lin. -
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Menz, K.M. Neumeyer, C.F. St. Paul, Minn., The Department. Extract: Scientists were surveyed as part of an assessment of five emerging biotechnologies which are potentially applicable to commercial U.S. maize production by the year 2000. The largest gains expected by scientists were from plant growth regulators, followed by photosynthetic enhancement, cell or tissue culture and biological nitrogen fixation. Staff paper P - University of Minnesota, Dept. of Agricultural and Applied Economics. Sept 1981. Sept 1981. (P81-28). 9 p. 1 ref. (NAL Call No.: HD1761.A1M5).

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(Springfield, Va.) National Technical Information Service 1980. PB80-850167 ~Cover title ~At head of title: Food science and technology abstracts ~On cover: Published search. 109, 67 leaves ; 28 cm. (NAL Call No.: QK753.G5G52).

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Mini-injector (Modified locking wrench combined with a disposable syringe and injector barrel for injecting growth regulators and other solutions into seedlings and branches of woody plants with small diameters; citation only).

Sterrett, J.P. USDA. Carroll, J.P.; Creager, R.A. Washington, D.C., The Office. United States patent - United States Patent Office. Aug 14, 1979. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Aug 14, 1979. (4,164,093). 4 p. ill. 17 ref. (NAL Call No.: No Call No. (PAT)).

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Modification of flowering, sex expression and fruiting of selected cucurbits by growth-regulating chemicals / by Mohamed Abdel-Rahman. -

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JOSHB. Amador, A.M. Stewart, K.A. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Jan 1987. v. 112 (1): p. 26-28. Includes 15 references. (NAL Call No.: DNAL 81 S012).

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parts of the flower. A record sheet and glossary are included. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Levels. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. 21 p. : ill. (NAL Call No.: S533.F66D6).(NAL Call No.: CO 708).

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Plant growth factors, member's manual, Unit IIC.

National 4-H Plant and Soil Science Program Development Committee. 1972. This manual covers plant growth factors-climate, rainfall or other weather, sunshine and light, atmosphere, and growth regulators. A record sheet and glossary are included. Document available from: Educational Aids, National 4-H Council, 7100 Connecticut Avenue, Washington, D.C. 20015. Publication intended for: Member, Junior and Senior High Level. Leader's guide available. Learning experience: Knowledge, skills, practices. Decision making. Personal growth. 21 p. : ill. (NAL Call No.: S533.F66D6).(NAL Call No.: CO 706).

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Morgan, P. Chicago, University of Chicago Press. Botanical gazette. Dec 1980. Literature review. v. 141 (4). p. 337-346. Bibliography 344-346. (NAL Call No.: 450 B652).

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Mitchell, John W. 1905-. Livingston, George A. 1916-; Marth, Paul C. 1909-. Washington, D.C. : U.S. Dept. of Agriculture, 1958. 68 p. : ill. ; 27 cm. (NAL Call No.: DNAL 1 Ag84Ah no.126).

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McDole, R.E. Painter, C.G. Ogden, Amalgamated Sugar Company. The Sugarbeet. Spring 1980. Spring 1980. p. 12-13. 2 ref. (NAL Call No.: 66.8 SU34B).

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Gubbels, G.H. Ottawa, Agricultural Institute of Canada. Canadian journal of plant science. July 1979. v. 59 (3). p. 857-859. ill. 12 ref. (NAL Call No.: 450 C16).

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The effect of (the plant growth regulator) "Alar-85" on peanut yield. HEBREW.
Bahat, A. Rimon, D. Tel-Aviv, Agricultural Workers' Organization of Israel. Hassadeh. June 1979. v. 59 (9). p. 1782-1786. ill. 5 ref. (NAL Call No.: 26 H27).

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Increased shortening of cereal plants by combined application of growth regulators (CCC (Chlorocholine chloride) Ethephon, Ancymidol). GERMAN.
Kuhn, H. Hofner, W. Frankfurt, J.D. Sauerlander's Verlag. Landwirtschaftliche Forschung. Sonderheft. 1978. 1978. (35). p. 271-276. ill. 7 ref. (NAL Call No.: 18 L2333A).

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Possibilities of growth regulation in tobacco culture. HUNGARIAN.
Bezsilva, B. Gondola, I. Budapest, Lapkiado Vallalat. Dohanyipar. Sept/Oct 1978. Sept/Oct 1978. (5). p. 175-177. (NAL Call No.: 286.89 D68).

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Absorption and translocation of some growth regulators by tomato plants growing under UV-B radiation and their effects on fruit quality and yield.

Prudot, A.P.FSHA. Bastouny, F.M. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 374-376. Includes references. (NAL Call No.: 81 F66).

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Accelerating palm seed germination with gibberellic acid, scarification, and bottom heat (*Archontophoenix alexandrae*, *Ptychosperma macarthurii*).

Nagao, M.A. Kanegawa, K.; Sakai, W.S. Alexandria, Va., American Society for Horticultural Science. HortScience. Apr 1980. v. 15 (2). p. 200-201. 111. 12 ref. (NAL Call No.: SB1.H6).

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Ryan, J. Saghir, A.R.; Shafyuddin, M.; Barsumian, A. Madison, Wis., American Society of Agronomy. Agronomy journal. Jan/Feb 1982. v. 74 (1). p. 144-146. Includes 11 ref. (NAL Call No.: 4 AM34P).

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Alar, a widely used growth regulator, 1979-85.

Schneider, K. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library (U.S.). Bibliography. Apr 1986. (86-54). 16 p. (NAL Call No.: DNAL aZ5071.N3).

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Apple color and shape improved by growth regulators.

Dozier, W.A. Jr. AL. Griffey, W.A.; Burgess, H.E. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Winter 1979. v. 26 (4). p. 14. 111. (NAL Call No.: 100 AL1H).

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Apple spray guide for middle Georgia (Pesticides, growth regulators).

McGlohon, N.E. Ellis, H.C.; Horton, D.; Crassweller, R.M.; Ferree, M.E. Athens : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1984. Jan 1984. (740,rev.). 15 p. (NAL Call No.: 275.29 G29B).

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Apple stretcher (Promalin) cleared (Plant growth regulators).

San Francisco, California Farmer. Agrichemical age. May 1979. v. 23 (5). p. 29. 111. (NAL Call No.: 381 AG85).

0111

Auxin effects on root regeneration of scarlet oak seedlings (*Quercus coccinea*, transplanting, growth regulators).

Struve, D.K. JOSHB. Moser, B.C. Alexandria : The Society. Journal of the American Society for Horticultural Science. Jan 1984. v. 109 (1). p. 91-95. 111. Includes references. (NAL Call No.: 81 S012).

0112

Auxin treatments increase the survival of transplants (Stimulate root regeneration in seedlings of woody ornamentals).

Struve, D.K. Kelly, R.D.; Moser, B.C. Chicago, Ill. : American Nurseryman Publishing Co. American nurseryman. May 15, 1984. v. 159 (10). p. 31-34, 36. Includes references. (NAL Call No.: 80 AM371).

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ANURA. Khatamian, H. Abuelgasim, Z. Chicago, Ill. : American Nurseryman Publishing Co. American nurseryman. Aug 15, 1986. v. 164 (4). p. 65-68, 70-73. 111. (NAL Call No.: DNAL 80 AM371).

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Boswell, S.B. Nauer, E.M.; Storey, W.B. Alexandria, Va., American Society for Horticultural Science. HortScience. Feb 1981. v. 16 (1). p. 46. 10 ref. (NAL Call No.: SB1.H6).

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0115

Axillary shoot stimulation and plant development of *Coleus (blumei)* treated with certain plant growth regulators.
Khosh-Khui, M. Rouhani, I. Dttawa, Agricultural Institute of Canada. Canadian journal of plant science. Dct 1978. v. 58 (4). p. 971-976. ill. 19 ref. (NAL Call No.: 450 C16).

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BA induces lateral branching of *peperomia obtusifolia*.
HJHSA. Henny, R.J. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1985. v. 20 (1). p. 115-116. ill. Includes 6 references. (NAL Call No.: DNAL SB1.H6).

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Basic methods for regulating plant growth.
Hammer, P.A. Chicago, Ill. : Florists' Publishing Company. Florists' review. Jan 1, 1981. v. 167 (4335). p. 29-31. (NAL Call No.: 80 W41).

0118

Batjer Memorial Address: Spray application technology: A limiting factor in growth regulator performance.
PWHAA. Bukovac, M. Wenatchee, Wash. : The Association. Proceedings - Washington State Horticultural Association. 1985. (81st). p. 170-174. (NAL Call No.: DNAL 81 W273).

0119

Benefits or disaster from growth regulator sprays (Injury, apples, pears, chemical thinning, cherries).
Williams, M.W. AR-W. Wenatchee. Proceedings Washington State Horticultural Association. 1979. 1979. (75th). p. 135-139. (NAL Call No.: 81 W273).

0120

Bio-regulation of fruit trees (Chemical thinning, growth regulators).
Williams, M.W. Wenatchee. Proceedings - Washington State Horticultural Association. 1980. 1980. (76th). p. 139-142. (NAL Call No.: 81 W273).

0121

Branch development in young apple trees.
CFRTA. Miller, S.S. East Lansing, Mich. : International Dwarf Fruit Tree Association. Compact fruit tree. 1986. v. 19. p. 46-52. ill. Includes references. (NAL Call No.: DNAL 93.5 D96).

0122

Branch induction on young 'Delicious' apple trees by application of growth regulators.
HJHSA. Unrath, C.R. Shaltout, A.D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1985. v. 20 (2). p. 230-231. Includes 14 references. (NAL Call No.: DNAL SB1.H6).

0123

Branching and growth of golden *Euonymus* and *Photinia* after foliar applications of Atrinal at the liner stage.
Mills, D.R. Cobb, G.S.; Reed, R.B. Nashville : The Association. Proceedings of SNA Research Conference - annual report - Southern Nurserymen's Association. 1984. (29th). p. 195-198. Includes 4 references. (NAL Call No.: DNAL SB403.S68).

0124

Branching of *Photinia x fraseri* in response to growth regulators and fertilizer.
Ryan, G.F. Washington, D.C. : Horticultural Research Institute. Journal of environmental horticulture. Mar 1985. v. 3 (1). p. 15-18. Includes 17 references. (NAL Call No.: DNAL SB1.J66).

0125

Branching of *Photinia X fraseri* in response to Atrinal and other growth regulators (Chemical pruning).
Ryan, G.F. Corvallis, The Service. Drnamentals northwest newsletter - Cooperative Extension Service, Dregon State Univeristy. Sept/Dct 1981. v. 5 (5). p. 8-10. Includes 10 ref. (NAL Call No.: SB403.D7).

0126

Branching responses of young apple trees to applications of 6-benzylamino purine and gibberellin A4 + 71 (Growth regulators, chemical induction of feathering in nursery stock).
Forshey, C.G. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. July 1982. v. 107 (4). p. 538-541. 20 ref. (NAL Call No.: 81 SD12).

0127

Can liquid indolebutyric acid produce better rooting than auxin-talc mixtures? (Vegetative plant propagation, Myrica cerifera, Cupressocyparis leylandii, Ilex crenata Convexa).

Bonaminio, V.P. Blazich, F.A. Chicago, Ill. : American Nurseryman Publishing Co. American nurseryman. June 1, 1984. v. 159 (11). p. 99-102, 104. ill. (NAL Call No.: 80 AM371).

0128

Change of endogenous growth regulators during storage of dormant corms of spring-flowering gladiolus.

HJHSA. Hosoki, T. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1985. v. 20 (3,sectionI). p. 366-367. ill. Includes 8 references. (NAL Call No.: DNAL SB1.H6).

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Changes in hormone content of pear receptacles from anthesis to shortly after fertilization as affected by pollination of GA3 (gibberellic acid) treatment.

Martin, G.C. Horgan, R.; Nishijima, C. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. May 1982. v. 93 (3). p. 479-482. 22 ref. (NAL Call No.: 81 S012).

0130

Chemical aids to the fruiting of apple trees (Growth regulators).

Tukey, R.B. WUEXA. Williams, M.W.; Stahley, E.A.; Heinicke, D.R. Pullman : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Mar 1983. Replaces EM 3517. Mar 1983. (1099). 3 p. (NAL Call No.: 275.29 W27P).

0131

Chemical control of vegetative growth in citrus trees by paclobutrazole.

HJHSA. Aron, Y. Monselise, S.P.; Goren, R.; Costo, J. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1985. v. 20 (1). p. 96-98. Includes 12 references. (NAL Call No.: DNAL SB1.H6).

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Chemical growth regulation of pecan seedlings.

HJHSA. Marquard, R.D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1985. v. 20 (5). p. 919-921. Includes 12 references. (NAL Call No.: DNAL SB1.H6).

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Chemical induction of lateral shoots on young apple trees (Feathered trees, growth regulators, Ohio cultivars).

Myers, S.C. Ferree, D.C. Wooster : The Center. Research circular - Ohio Agricultural Research and Development Center. Sept 1982. Sept 1982. (272). p. 12-15. 11 ref. (NAL Call No.: 100 OH3R).

0134

Chemical stimulation of floral initiation in florists' hydrangea.

HJHSA. Bailey, D.A. Weiler, T.C.; Kirk, T.I. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1986. v. 21 (2). p. 256-257. ill. Includes references. (NAL Call No.: DNAL SB1.H6).

0135

Chemical thinning, hand thinning and growth regulator impact on size of apple fruit.

PWHAA. Williams, M. Wenatchee, Wash. : The Association. Proceedings - Washington State Horticultural Association. 1985. (81st). p. 96-106. Includes references. (NAL Call No.: DNAL 81 W273).

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Chemicals that regulate plants.

ARNPB. Einset, J.W. Jamaica Plain, Mass. : Arnold Arboretum. Arnoldia. Spring 1985. v. 45 (2). p. 28-34. ill. (NAL Call No.: DNAL 451 AR6BA).

0137

Chlorflurenol increases yield of processing tomatoes (Growth regulator, Curbiset).

Kretchman, D.W. Hadidi, N.A. Alexandria, Va., American Society for Horticultural Science. HortScience. Dec 1980. v. 15 (6). p. 792. ill. 5 ref. (NAL Call No.: SB1.H6).

0138

Chlormequat-induced early flowering of hybrid geranium: the influence of gibberellic acid.

HJHSA. Armitage, A.M. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1,section 1). p. 116-118. Includes references. (NAL Call No.: DNAL SB1.H6).

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0139

Chrysanthemum height control by ancymidol, PP333, and EL-500 dependent on medium composition (Growth regulators, pine bark, daminozide).

Barrett, J.E.HJSA. Alexandria : American Society for Horticultural Science. HortScience. Dec 1982. v. 17 (6). p. 896-897. 12 ref. (NAL Call No.: SB1.H6).

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Citrus fruits-- varieties, chemistry, technology, and quality evaluation. Part I: Varieties, production, handling, and storage. Ramana, K.V.R. Govindarajan, V.S.; Ranganna, S. Boca Raton, Fla., CRC Press. Abstract: A critical account is presented on various aspects of the characteristics and use of citrus fruits. Citrus fruit topics covered in detail include: classification, breeding, diseases (causing loss), production, growth in various countries, composition (as affected by various factors), maturity standards (for harvesting), harvesting, commercial handling, and storage. Factors causing crop loss are reviewed, including infectious diseases (fungal, bacterial, viral), nematodes, and pests. Factors affecting fruit composition are discussed: rootstock characteristics, climate, tree age and density, nutrient status effects (e.g., phosphorus, potassium, calcium, nitrogen, trace elements, vitamin C), growth regulators, chemical sprays, and growth and maturation effects. Harvesting, handling, grading, and storage procedures are reviewed. Control of post-harvest diseases and changes in chemical constituents during storage are discussed. Numerous tabular data are included. (wz). CRC critical reviews in food science and nutrition. Dec 1981. Literature review. v. 15 (4). p. 353-432. ill., charts. 411 ref. (NAL Call No.: TP368.C7).

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Nauer, E.M. Holmes, R.C.; Boswell, S.B. Alexandria, Va., American Society for Horticultural Science. HortScience. Oct 1980. v. 15 (5). p. 591-592. ill. 2 ref. (NAL Call No.: SB1.H6).

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Comparative efficacy of XE-1019D with other plant growth regulators.

PPGGD. Bassi, P.K. Abernathy, S.M.; Glazier, D.E. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1986. (13th). p. 59-61. Includes references. (NAL Call No.: DNAL SB128.P5).

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Comparison between responsiveness of selected grape clones to gibberellin applications and their endogenous levels in breaking buds and maturing berries.

Hagiwara, H. Ryugo, K.; Olmo, H.P. Davis, American Society of Enologists. American journal of enology and viticulture. 1980. v. 31 (4). p. 309-312. ill. 8 ref. (NAL Call No.: 390.9 AM33).

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Tolla, G.E. Peterson, C.E. Mt. Vernon, Va., American Society for Horticultural Science. HortScience. Aug 1979. v. 14 (4). p. 542-544. ill. 8 ref. (NAL Call No.: SB1.H6).

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Control of apple tree growth and vigor with growth regulators.

Elfving, D.C. East Lansing, Mich. : International Dwarf Fruit Tree Association. Compact fruit tree. May 1984. v. 17. p. 142-146. (NAL Call No.: 93.5 D96).

0146

Control of flowering in bougainvillea "San Diego Red" (cultivar). Metabolism of benzyladenine and the action of gibberellic acid in relation to short day induction.

Even-Chen, Z. Sachs, R.M. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Oct 1979. v. 64 (4). p. 646-651. ill. 20 ref. (NAL Call No.: 450 P692).

0147

Control of onion seedstalk height with ethephon (to improve harvesting efficiency, cultivar trials, growth inhibitors).

Corgan, J.N. Las Cruces : The Station. Bulletin - New Mexico Agricultural Experiment Station. Sept 1981. Sept 1981. (686). 20 p. ill. 2 ref. (NAL Call No.: 100 N465 (1)).

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Control of peach tree growth and productivity by regulated water supply, tree density, and summer pruning (Trickle irrigation).

Chalmers, D.J. Mitchell, P.D.; Van Heek, L. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. May 1981. v. 106 (3). p. 307-312. 19 ref. (NAL Call No.: 81 S012).

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Control of polka-dot plant (*Hypoestes sanguinolenta*) with growth regulators.
Armitage, A.M. Carlson, W.H. Apopka, Fla., Foliage Education and Research Foundation. Foliage digest. Apr 1980. v. 3 (3). p. 5-6. 111. 8 ref. (NAL Call No.: SB431.F6).

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Control of strawberry fruit set and development with auxins.
Mudge, K.W. Narayanan, K.R.; Poovaiah, B.W. Alexandria, Va., The Society. v 6. Journal of the American Society for Horticultural Science. Jan 1981. v. 106 (1). p. 80-84. 111. 22 ref. (NAL Call No.: 81 S012).

0151

Control of strawberry plant growth and runner production by flurprimidol.
Archbold, D.D. s.l. : North American Strawberry Growers Association. Advances in strawberry production. Spring 1986. v. 5. p. 28-30. Includes references. (NAL Call No.: DNAL SB385.A34).

0152

Controlling flowering of *Dieffenbachia* with gibberellic acid.
Henny, R.J. Rasmussen, E.M. Apopka, Fla., Foliage Education and Research Foundation. Foliage digest. Oct 1980. v. 3 (9). p. 5. (NAL Call No.: SB431.F6).

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Cool-season grass response to MON-4620 applications site and timing (Tall fescue, *Festuca arundinacea*, Kentucky bluegrass, *Poa pratensis*, herbicide, plant growth regulator).
Kaufmann, J.E. PPGGD. Sandbrink, J.U.; Stehling, S.J.; Thibodeau, P.S. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1983. 1983. (10th). p. 61-67. (NAL Call No.: SB128.P5).

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JOSH. Braun, J.W. Kender, W.J. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. 1985. v. 110 (1). p. 28-34. Includes references. (NAL Call No.: DNAL 81 S012).

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HARAA. Gilliam, C.H. Turner, J.L.; Hardy, S.M.; Rymal, K.S.; Shumack, R.L. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama Agricultural Experiment Station. Fall 1986. v. 33 (3). p. 12. 111. (NAL Call No.: DNAL 100 AL1H).

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Daminozide and gibberellin effects on floral induction of *Citrus latifolia*.
Davenport, T.L. HJHSA. Alexandria : American Society for Horticultural Science. HortScience. Dec 1983. v. 18 (6,sec.1). p. 947-949. Includes references. (NAL Call No.: SB1.H6).

0157

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Sutulova, V.I. New York, Allerton Press. Soviet agricultural sciences. 1981. Translated from: Vsesoiuznaia akademiia sel'skokhoziaistvennykh nauk, Doklady, p. 43-44. (20 AK1). 1981. (5). p. 67-69. Includes 6 ref. (NAL Call No.: S1.S68).

0158

The dilemma...growth regulators or retardants? (in commercial floriculture crop production).
Seeley, J.G. Apopka : Foliage Education and Research Foundation. Foliage digest. Apr 1983. v. 6 (4). p. 14-15. (NAL Call No.: SB431.F6).

0159

Early responses with EL500 and Paclobutrazol trunk banding of ornamental trees (Plant growth regulators, *Morus alba*, *Ulmus parvifolia*, *Ficus nitida*).
Heild, H. PPGGD. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1983. 1983. (10th). p. 182-190. Includes references. (NAL Call No.: SB128.P5).

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Earthworm casting in plant propagation.
HJHSA. Grappelli, A. Tomati, U.; Galli, E.; Vergari, B. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1985. v. 20 (5). p. 874-876. 111. Includes 19 references. (NAL Call No.: DNAL SB1.H6).

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0161

Economic benefit of GA3 application on young tart cherry trees.

HJHSA. Stang, E.J. Weidman, R.W. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 78-79. Includes references. (NAL Call No.: DNAL SB1.H6).

0162

Effect of aminoethoxyvinylglycine, carboxymethylcellulose and growth regulators on longevity of fresh rabbiteye blueberries (Vaccinium ashei).

Dekazos, E.D. s.l., The Society. Proceedings of the ... annual meeting of the Florida State Horticultural Society. 1980 (pub 1981). v. 93. p. 145-149. 21 ref. (NAL Call No.: 81 F66).

0163

Effect of auxin combinations on rooting Persoonia chamaepitys and Persoonia pinifolia cuttings.

Ellyard, R.K. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1982. v. 31. p. 251-255. Includes references. (NAL Call No.: 451 P692).

0164

Effect of auxin dipping depth on the rooting of 'Helleri' holly (Ilex crenata) cuttings.

Blazich, F.A. Nashville, The Association. Proceedings of SNA Research Conference - annual report. Southern Nurserymen's Association. 1979. 1979. (24th). p. 225-227. ill. (NAL Call No.: SB403.S68).

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Effect of BA + GA4+7, BA, and daminozide on growth and lateral shoot development in peach.

JOSHB. Elkner, T.E. Coston, D.C. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. July 1986. v. 111 (4). p. 520-524. Includes references. (NAL Call No.: DNAL 81 S012).

0166

The effect of BA and GA3 on patch budding success of Persian walnut seedlings.

Pontikis, C.A. Papalexandris, C.X.; Aristeridou, M. Boulder, Colo. : International Plant Propagators' Society. The Plant propagator. Mar 1985. v. 31 (1). p. 13-14. Includes references. (NAL Call No.: DNAL 81 P692).

0167

Effect of chemical thinners on 'delicious' apple trees previously sprayed with GA4+7 + BA.

HJHSA. Greene, D.W. Lord, W.J. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1985. v. 20 (1). p. 84-86. Includes 17 references. (NAL Call No.: DNAL SB1.H6).

0168

Effect of cultivar, strain, and growth regulator treatments on shoot development and ethylene evolution in apple trees.

Walsh, C.S. Kender, W.J. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Mar 1982. v. 107 (2). p. 198-202. Includes 25 ref. (NAL Call No.: 81 S012).

0169

Effect of cultural practices and plant growth regulator applications on bloom delay of peach, Prunus persica (L.) Batsch / by Bobby Donald Reeder. -.

Reeder, Bobby Donald, 1946-. 1977. Thesis (Ph.D.)--Texas A & M University, 1977. Photocopy. Ann Arbor, Mich. : University Microfilms International, 1979. ix, 58 leaves : ill. ; 21 cm. Bibliography: leaves 44-47. (NAL Call No.: DISS 77-20,409).

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Effect of daminozide and ethephon (growth regulators) on yield and quality of erect blackberries.

Morris, J.R. Cawthon, D.L. St. Joseph, Mich., The Society. Journal American Society for Horticultural Science. Nov 1978. v. 103 (6). p. 804-806. ill. 9 ref. (NAL Call No.: 81 S012).

0171

Effect of daminozide, chlormequat chloride and ethephon on taniel (Xanthosoma caracu Koch & Bouche) yield and yield components (Important root crop in Puerto Rico, growth regulators, cormel production).

Beale, A.J. Green, V.E. Jr. Rio Piedras, University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Apr 1982. v. 66 (2). p. 109-114. 9 ref. (NAL Call No.: 8 P832J).

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0172

Effect of depulping and growth regulators on seed germination of *Alyxia olivaeformis* (Valuable foliage plant in the Hawaiian Islands).
Tanabe, M.J. Alexandria, Va., American Society for Horticultural Science. HortScience. Apr 1980. v. 15 (2). p. 199-200. ill. 6 ref. (NAL Call No.: SB1.H6).

0173

Effect of early season foliar sprays of GA4+7 on russeting and return bloom of 'Golden Delicious' apple.
HJHSA. Meador, D.B. Taylor, B.H. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1987. v. 22 (3). p. 412-415. Includes references. (NAL Call No.: DNAL SB1.H6).

0174

Effect of ethephon and GA3 on time of flowering in peach.
HJHSA. Gianfagna, T.J. Marini, R.; Rachmiel, S. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 69-70. Includes references. (NAL Call No.: DNAL SB1.H6).

0175

Effect of fertilizer, paclobutrazol, and chlormequat on strawberry.
JOSHB. McArthur, D.A.J. Eaton, G.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Mar 1987. v. 112 (3). p. 241-246. Includes references. (NAL Call No.: DNAL 81 S012).

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Effect of foliar application of auxin on the quality of potatoes.
Chandra, S. Mondy, N.I. Chicago, Institute of Food Technologists. Journal of food science. Nov/Dec 1981. v. 46 (6). p. 1870-1873. ill. Includes 28 ref. (NAL Call No.: 389.8 F7322).

0177

Effect of GA3 (gibberellic acid) spray on developing and mature clusters of Thompson seedless grapes.
Mansour, K.M. Salem, E.A. Cairo. Agricultural research review. Mar 1977. v. 55 (3). p. 79-88. ill. 11 ref. (NAL Call No.: 24 EG94).

0178

Effect of gibberellic acid and seed rates on pepper seed germination in aerated water columns (*Capsicum annuum*).
Sosa-Coronel, J. Motes, J.E. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Mar 1982. v. 107 (2). p. 290-295. ill. Includes 14 ref. (NAL Call No.: 81 S012).

0179

Effect of gibberellic acid on flowering and quality of double Persian violet.
HJHSA. Neumaier, E.E. Blessington, T.M.; Price, J.A. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1987. v. 22 (5). p. 908-911. Includes references. (NAL Call No.: DNAL SB1.H6).

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Effect of gibberellic acid on yield and quality of fall-harvested and overwintered spinach (*Spinacia oleracea*).
Gonzalez, A.R. JOSHB. Marx, D.B. Alexandria : The Society. Journal of the American Society for Horticultural Science. July 1983. v. 108 (4). p. 647-651. Includes references. (NAL Call No.: 81 S012).

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Effect of growth regulator and nitrogen on height and branching of *Skimmia reevesiana*.
Ryan, G.F. Washington, D.C. : Horticultural Research Institute. Journal of environmental horticulture. June 1985. v. 3 (2). p. 71-74. Includes 8 references. (NAL Call No.: DNAL SB1.J66).

0182

Effect of growth-regulators on ethylene production by 'Thompson Seedless' grape berries.
Singh, I.S. Chundawat, B.S. New Delhi, Indian Council of Agricultural Research. Indian journal of agricultural sciences. Dec 1978. v. 48 (12). p. 755-757. ill. 11 ref. (NAL Call No.: 22 AG83I).

0183

Effect of growth regulators on growth, flowering, flower quality and essential oil content of *Jasminum auriculatum* Vahl. var. *Pari Mullai*.
Pappiah, C.M. Muthuswamy, S. Coimbatore, South Indian Horticultural Association. South Indian horticulture. Apr 1978. v. 26 (2). p. 66-71. ill. 21 ref. (NAL Call No.: 80 S0825).

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- 0185**
Effect of growth regulators on seed germination of *Archontophoenix alexandrae*. Nagao, M.A. Sakai, W.S. Mt. Vernon, Va., American Society for Horticultural Science. HortScience. Apr 1979. v. 14 (2). p. 182-183. ill. 8 ref. (NAL Call No.: SB1.H6).
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Effect of hydrogen cyanamide on bud emergence in wine grapes. CAGRA. Foott, J.H. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Mar/Apr 1987. v. 41 (3/4). p. 19. ill. (NAL Call No.: DNAL 100 C12CAG).
- 0187**
Effect of H₂SO₄ (hydrogen sulfate) and GA₃ (gibberellic acid) on seed germination of *Zamia furfuracea* (Foliage plants). Dehgan, B.HJHSA. Schutzman, B. Alexandria : American Society for Horticultural Science. HortScience. June 1983. v. 18 (3). p. 371-372. ill. Includes references. (NAL Call No.: SB1.H6).
- 0188**
Effect of lateral wounding in growth-regulator-treated *Arctostaphylos* cuttings (Propagation). Wisura, W.A. Boulder, Colo., The Society. Combined proceedings - International Plant Propagators' Society. 1980 (pub. 1981). v. 30. p. 119-120. (NAL Call No.: 451 P692).
- 0189**
Effect of nitrogen and daminozide on shoot growth for pear *Psylla* suppression and on 'Barlett' pear performance (Growth regulator, *Psylla pyricola*, fire blight, *Erwinia amylovora*). Lombard, P.B. Westigard, P.H.; Strang, J.G.; Allen, R.B.; Joy, D.N: Alexandria, Va., American Society for Horticultural Science. HortScience. Aug 1982. v. 17 (4). p. 668-669. 9 ref. (NAL Call No.: SB1.H6).
- 0190**
The effect of nitrogen, potassium, alar and gibberellin on growth and fruiting behavior on Himrod grapes / by Shitla Prasad Pathak. -. Pathak, Shitla Prasad, 1935-. 1972. Thesis (Ph.D.)--Ohio State University, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xi, 140 leaves ; 21 cm. Bibliography: leaves 125-133. (NAL Call No.: DISS 72-21,001).
- 0191**
Effect of paclobutrazol and flurprimidol on the germination and growth of wheat and radish. PPGGD. Devlin, R.M. Koszanski, Z.K. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 237-242. Includes references. (NAL Call No.: DNAL SB128.P5).
- 0192**
Effect of paclobutrazol on the vegetative growth, yield, quality, and winterhardiness of buds of 'Concord' grape. HJHSA. Ahmedullah, M. Kawakami, A.; Sandidige, C.R. III; Wample, R.L. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1986. v. 21 (2). p. 273-274. Includes references. (NAL Call No.: DNAL SB1.H6).
- 0193**
The effect of plant growth regulators and temperature on the retention of cyathia in poinsettia (*Euphorbia pulcherrima* Willd.). Shanks, J.B. Purohit, A. Longmont, Colo., The Group. Proceedings - Plant Growth Regulator Working Group. Plant Growth Regulator Working Group. 1979. 1979. (6th). p. 62-67. ill. 5 ref. (NAL Call No.: SB128.P5).
- 0194**
Effect of planting date and growth regulators on poinsettia height. Wilfret, G.J. s.l. : The Society. Proceedings of the ... annual meeting of the Florida State Horticulture Society. June 1985. v. 97. P. 289-291. Includes references. (NAL Call No.: DNAL SB319.2.F6F56).
- 0195**
Effect of season and growth regulators on flowering, fruit-set and development of the tomato. Perez-Zapata, M. Ramirez Oliveras, G. Rio Piedras, The Station. Abstract: Two tomato varieties, Floralou and Marglobe, were treated with spray applications of N-m-tolylphthalamic

acid at 0, 100, 200, 300 p/m, and b-naphthoxyacetic acid at 0, 15, 25 and 35 p/m starting at anthesis for six consecutive weeks, totalling six applications. Flowers and quiescent fruits were more abundant during the summer but yield was lower. Growth regulators affected neither flowering nor number of quiescent fruits, but depressed yields. Winter was the best yielding season, although it was the poorest in flowering. B-naphthoxyacetic acid resulted in increased fruit size at the two higher concentrations. Seedless fruits of good quality were produced at the higher concentrations during summer and autumn. Results indicate that flower abscission is not a limiting factor under the conditions of this research. The Journal of agriculture of the University of Puerto Rico - Puerto Rico, Agricultural Experiment Station. Oct 1980. v. 64 (4). p. 460-473. 35 ref. (NAL Call No.: 8 P832J).

0196

Effect of several growth regulators on the development of Dutch iris.

Picciarelli, P. Alpi, A. Firenze, Istituto di Coltivazioni Arboree. Rivista della ortoflorofrutticoltura italiana. Mar/Apr 1979. v. 63 (2). p. 93-102. ill. 21 ref. (NAL Call No.: 86 R22).

0197

Effect of silver nitrate, aminoethoxyvinylglycine, and gibberellins A4+7 plus 6-benzylamino purine on fruit set and development of 'Delicious' apples.

Greene, D.W. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Sept 1980. v. 105 (5). p. 717-720. ill. 21 ref. (NAL Call No.: 81 S012).

0198

Effect of soil-applied paclobutrazol on 'Cheyenne' pecans.

HJHSA. Andersen, P.C. Aldrich, J.H. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1987. v. 22 (1). p. 79-82. Includes references. (NAL Call No.: DNAL SB1.H6).

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Effect of some cold treatments and gibberellic acid on crop improvement and flower induction of cabbage.

El-Motaz-Bellah, M. Arafa, A.F. Cairo. Agricultural research review. Mar 1977. v. 55 (3). p. 21-218. ill. 8 ref. (NAL Call No.: 24 EG94).

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Shaltout, A.D. JDSHB. Unrath, C.R. Alexandria : The Society. Journal of the American Society for Horticultural Science. Nov 1983. v. 108 (6). p. 898-901. Includes references. (NAL Call No.: 81 S012).

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Effect of some growth regulators as affecting fruit thinning in Cascata nectarine cv (cultivar).

Lucas Fortes, G.R. de. Ducroquet, J.P.H.J. Longmont, Colo., The Group. Proceedings - Plant Growth Regulator Working Group. Plant Growth Regulator Working Group. 1979. 1979. (6th). p. 242-249. ill. 24 ref. (NAL Call No.: SB128.P5).

0202

The effect of stratification and GA3 on germination of filbert seed as influenced by dry storage.

PNGDA. Nussbaum, E.S. Lagerstedt, H.B. Tigard, Dr. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1983. (68th). p. 86-88, 90-92. ill. Includes 9 references. (NAL Call No.: DNAL 94.69 W52).

0203

Effect of temperature, fall defoliation, and gibberellic acid on the rest period of peach leaf buds.

Walser, R.H. Walker, D.R.; Seeley, S.D. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Jan 1981. v. 106 (1). p. 91-94. ill. 24 ref. (NAL Call No.: 81 S012).

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Effect of trellising, crown bunch handling, and the number of oil emulsion and gibberellic acid sprays on harvest-pruned Sultanas (Grapes).

Sarooshi, R.A. Roberts, E.A. Melbourne, CSIRO. Australian journal of experimental agriculture and animal husbandry. Feb 1979. v. 19 (96). p. 122-128. ill. 12 ref. (NAL Call No.: 23 AU792).

0205

Effect of triacetonol on yield and fruit composition of spring-harvested 'Tangi' and 'Dover' strawberries.

HJHSA. Hashim, O.B. Lundergan, C.A. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1985. v. 20 (1). p.

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0206

Effect of trunk injection of three growth regulators on sprout growth in silver maple.
JOARD. Arron, G.P. Urbana, Ill. : International Society of Arboriculture. Journal of arboriculture. Oct 1985. v. 11 (10). p. 301-306. Includes 18 references. (NAL Call No.: DNAL SB436.J6).

0207

Effect of water vapor pressure on the thermal decomposition of 2-chloroethylphosphonic acid (Plant growth regulator, relation to olive fruit abscission).
Klein, I. Lavee, S. Bethesda, American Society of Plant Physiologists. Plant physiology. Mar 1979. v. 63 (3). p. 474-477. ill. 10 ref. (NAL Call No.: 450 P692).

0208

Effect on phloroglucinol on Successful propagation in vitro of Troyer citrange.
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0519

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Growth retarding effects of the herbicide Difenzoquat.
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- 0522**
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- 0523**
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- 0524**
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- 0525**
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- 0526**
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- 0527**
Influence of the bioregulator Burst Yield Booster on boll load and yields of cotton.
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- 0528**
Interaction of AC-94, 377 and GA (gibberellic acid) with CCC (plant growth regulators) and chlorflurenol on the growth of corn.
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- 0529**
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BCOPB. Wiley, D.C. Sr. Weir, B.L.; Vargas, R.; Roberts, B.; George, A. Memphis, Tenn. : National Cotton Council and The Cotton Foundation. Proceedings - Beltwide Cotton Production Research Conferences. Paper presented at the "Beltwide Cotton Production Research Conferences," January 4-9, 1986, Las Vegas, Nevada. 1986. p. 512-513. Includes 2 references. (NAL Call No.: DNAL SB249.N6).
- 0530**
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- 0531**
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- 0532**
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Effect of 2,4-dichlorophenoxyacetic acid on the expression of embryogenic program in carrot.

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0856

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0861

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FARM EQUIPMENT

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Batjer Memorial Address: Spray application technology: A limiting factor in growth regulator performance.

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BIOMASS ENERGY SOURCES

2869

Ethanol inhibition kinetics of Kluyveromyces marxianus grown on Jerusalem artichoke juice (Biomass fuels, single-cell protein).

Bajpai, P. APMB. Margaritis, A. Washington : American Society for Microbiology. Applied and environmental microbiology. Dec 1982. v. 44 (6). p. 1325-1329. Includes references. (NAL Call No.: 448.3 AP5).

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Effect of growth regulators on pixie poinsettias grown with two irrigation systems.
Wilfret, G.J. s.l., The Society. Proceedings of the ... annual meeting of the Florida State Horticultural Society. 1980 (pub 1981). v. 93. p. 215-218. 12 ref. (NAL Call No.: 81 F66).

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Growth retardation of bermudagrass with metsulfuron methyl and sulfometuron methyl.
AGJQAT. Rogers, J.N. III. Miller, E.M.; King, J.W. Madison, Wis. : American Society of Agronomy. Agronomy journal. Mar/Apr 1987. v. 79 (2). p. 225-229. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Influence of growth retardants (anti-gibberellins) on corn vegetative growth, water use, and grain yield under different levels of water stress.
AGJQAT. Shanahan, J.F. Nielsen, D.C. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1987. v. 79 (1). p. 103-109. Includes references. (NAL Call No.: DNAL 4 AM34P).

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Production potentials of short-season cotton in Missouri.
Sappenfield, W.P. Memphis : National Cotton Council. Proceedings of the... Beltwide Cotton Production Conference. 1987. p. 92-95. Includes references. (NAL Call No.: DNAL SB245.B42).

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Response of southern pea to ethephon and irrigation (Growth regulators).
Haynes, R. Love, F. Fayetteville, Ark., The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Mar/Apr 1982. v. 31 (2). p. 11. (NAL Call No.: 100 AR42F).

LAND RESOURCES

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Germination of *Nandina domestica* seed as influenced by GA3 and stratification.

Dehgan, B. s.l. : The Society. Proceedings of the ... annual meeting of the Florida State Horticulture Society. June 1985. v. 97. p. 311-313. Includes references. (NAL Call No.: DNAL SB319.2.F6F56).

2881

Citrus fruits-- varieties, chemistry, technology, and quality evaluation. Part I: Varieties, production, handling, and storage. Ramana, K.V.R. Govindarajan, V.S.; Ranganna, S. Boca Raton, Fla., CRC Press. Abstract: A critical account is presented on various aspects of the characteristics and use of citrus fruits. Citrus fruit topics covered in detail include: classification, breeding, diseases (causing loss), production, growth in various countries, composition (as affected by various factors), maturity standards (for harvesting), harvesting, commercial handling, and storage. Factors causing crop loss are reviewed, including infectious diseases (fungal, bacterial, viral), nematodes, and pests. Factors affecting fruit composition are discussed: rootstock characteristics, climate, tree age and density, nutrient status effects (e.g., phosphorus, potassium, calcium, nitrogen, trace elements, vitamin C), growth regulators, chemical sprays, and growth and maturation effects. Harvesting, handling, grading, and storage procedures are reviewed. Control of post-harvest diseases and changes in chemical constituents during storage are discussed. Numerous tabular data are included. (wz). CRC critical reviews in food science and nutrition. Dec 1981. Literature review. v. 15 (4). p. 353-432. 111., charts. 411 ref. (NAL Call No.: TP368.C7).

FOOD PROCESSING, FIELD CROP

2882

Inhibition of microbial growth during ambient air corn drying using sulfur dioxide (Food preservatives).

Eckhoff, S.R. Tuite, J.; Foster, G.H.; Anderson, R.A.; Okos, M.R. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. May/June 1984. v. 27 (3). p. 907-914. Includes references. (NAL Call No.: 290.9 AM32T).

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Malting of Triticum dicoccum (khapli) wheat: response to gibberellic acid and use in baking (India).

Singh, T. JFDSA. Maninder, K.; Bains, G.S. Chicago : Institute of Food Technologists. Journal of food science. July/Aug 1983. v. 48 (4). p. 1135-1138, 1144. Includes references. (NAL Call No.: 389.8 F7322).

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FOOD STORAGE, HORTICULTURAL CROP

2886

Effect of camptothecin on the storage quality of radishes (Root and top growth inhibition).
Wang, C.Y. AR-BARC. Buta, J.G.; Hruschka, H.W. Alexandria, Va., American Society for Horticultural Science. HortScience. Feb 1980. v. 15 (1). p. 72-73. ill. 7 ref. (NAL Call No.: SB1.H6).

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Effects of calcium and auxin on russet spotting and phenylalanine ammonia-lyase activity in iceberg lettuce.
HUHSA. Ke, D. Saltveit, M.E. Jr. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1986. v. 21 (5). p. 1169-1171. ill. Includes references. (NAL Call No.: DNAL SB1.H6).

2888

Effects of daminozide and paclobutrazol treatments on fruit ripening and storage behavior of 'McIntosh' apple.
JOSHB. Elfving, D.C. Chu, C.L.; Loughheed, E.C.; Cline, R.A. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Nov 1987. v. 112 (6). p. 910-915. Includes references. (NAL Call No.: DNAL 81 S012).

2889

Effects of some postharvest and storage treatments on the incidence of flesh browning in controlled-atmosphere-stored 'Delicious' apples (Physiological disorders, calcium, gibberellic acid, diphenylamine).
Meheriuk, M. Lau, O.L.; Hall, J.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1984. v. 109 (3). p. 290-293. Includes references. (NAL Call No.: 81 S012).

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Nothmann, J. Boca Raton, Fla. : CRC Press, 1986. CRC handbook of fruit set and development / edited by Shaul P. Monselise. Literature review. p. 145-152. ill. Includes references. (NAL Call No.: DNAL SB357.28.C73).

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Growth regulator and nutritional effects on grapefruit color and storage quality.
Ferguson, L.PPGGD. Davies, F.S.; Ismail, M.A.; Wheaton, T.A. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1983. 1983. (10th). p. 175-181. ill. Includes references.

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Gur, A. Boca Raton, Fla. : CRC Press, 1986. CRC handbook of fruit set and development / edited by Shaul P. Monselise. Literature review. p. 401-418. ill. Includes references. (NAL Call No.: DNAL SB357.28.C73).

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Postharvest responses of 'Spartan' apples to preharvest paclobutrazol treatment.
HUHSA. Wang, C.Y. Steffens, G.L. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1987. v. 22 (2). p. 276-278. Includes references. (NAL Call No.: DNAL SB1.H6).

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Pre- and postharvest gibberellic acid and 2,4-Dichlorophenoxyacetic acid applications for increasing storage life of grapefruit.
Ferguson, L.PFSHA. Ismail, M.A.; Davies, F.S.; Wheaton, T.A. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 242-245. ill. Includes references. (NAL Call No.: 81 F66).

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Retention of fruit firmness and increase in vegetative growth and fruit set of apples with aminoethoxyvinylglycine (an inhibitor of ethylene synthesis).
Williams, M.W. AR-W. Alexandria, Va., American Society for Horticultural Science. HortScience. Feb 1980. v. 15 (1). p. 76-77. ill. 5 ref. (NAL Call No.: SB1.H6).

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Strawberry.
Avigdor-Avidov, H. Boca Raton, Fla. : CRC Press, 1986. CRC handbook of fruit set and development / edited by Shaul P. Monselise. Literature review. p. 419-448. ill. Includes references. (NAL Call No.: DNAL SB357.28.C73).

MICROBIOLOGY OF FOOD PROCESSING

2898

Comparative antimycotic effects of selected herbs, spices, plant components and commercial antifungal agents.

Azzouz, Muftah A. Bullerman, Lloyd B. Ames : International Association of Milk, Food, and Environmental Sanitarians. Extract: The antifungal effects of 16 ground herbs and spices, 4 other plant materials, 3 commercial antifungal agents, tannic acid, and 2 experimental mold inhibitors were tested against 7 mycotoxin-producing molds. Of the 26 substances tested, cloves, cinnamon, mustard, allspice, garlic, and oregano at the 2% level in potato dextrose agar, completely inhibited growth of all 7 mycotoxigenic molds for various times up to 21 days. The remaining compounds either caused little or no inhibition. Powdered pomegranate peel was a good inhibitor against 4 *Penicillium* species. Potassium sorbate at 0.3% was highly effective against all 7 mold strains. The antifungal antibiotic, natamycin (pimaricin), also was highly effective. Combinations of different levels of potassium sorbate and cloves showed an enhanced (or possible synergistic) inhibitory effect on growth of all 7 molds tested, indicating the possibility of using spices and commercial antifungal agents together in small amounts to obtain antimycotic activity. (author). Journal of food protection. Dec 1982. v. 45 (14). p. 1298-1301. charts. Includes 19 references. (NAL Call No.: 44.8 J824).

2899

Insecticide inhibition of growth and patulin production by *Penicillium urticae*.

Draughon, Frances A. Ayres, John C. Chicago, Institute of Food Technologists. Abstract: Patulin is a potent mycotoxin that can be formed in rotting apples and other fruits or vegetables infected by fungi. Since certain chemical compounds are known to inhibit production of other mycotoxins, including aflatoxin, the effect of insecticides in inhibiting growth and patulin production by the fungus, *Penicillium urticae*, was investigated using 3 concentrations of insecticide. The organophosphate insecticides Naled and Dichlorvos inhibited patulin production by 100 and 89%, respectively, at the highest (100 mg/l) concentration. The organophosphate insecticides Malathion and Diazinon inhibited patulin production by 0-52% at the same concentration. The carbamate insecticides Landrin and Sevin inhibited patulin production by 85 and 100%, respectively, and completely inhibited fungal sporulation at the 100 mg/l concentration. However, they did not significantly inhibit fungal growth. Thus, insecticides with antimycotoxic effects may be very useful in mycotoxin prevention in food crops. The biochemical mechanism of action of these inhibitory chemicals is not well understood. Journal of food science. July/Aug 1979. v. 44 (4). p. 1232-1234. charts. 14 ref. (NAL Call No.: 389.8 F7322).

2800

Some characteristics of an endo-pectate lyase produced by a thermophilic *Bacillus* isolated from olives.

Karbassi, A. Luh, B.S. Chicago, Institute of Food Technologists. Abstract: Pectic enzymes degrade pectins in plant tissues, causing rot in fruits and vegetables, and softening in pickled olives. An endo-pectate lyase secreted from a bacterium in pickled olive brine was purified by ammonium sulfate precipitation and successive chromatography. This enzyme degraded both pectic acid and pectin but not esterified pectin. Pectolytic reaction end products were mostly unsaturated di- and tri-galacturonic acids although both saturated and unsaturated galacturonic acids were cleaved by the enzyme. When either the bacterial culture or the isolated enzyme were added to pickled olives, softening of the tissue within a week was observed. Biochemical parameters of the enzyme including activation energy, Q10 value and Vmax were determined. Control of the brine salt concentration during olive pickling should focus on inhibiting growth of undesirable *Bacillus* or eliminating the enzyme from the fermentation vat to prevent texture breakdown. Journal of food science. July/Aug 1979. v. 44 (4). p. 1156-1161. ill., charts. 29 ref. (NAL Call No.: 389.8 F7322).

MICROBIOLOGY, HORTICULTURAL CROP

2901

Ethanol inhibition kinetics of *Kluyveromyces marxianus* grown on Jerusalem artichoke juice (Biomass fuels, single-cell protein).

Bajpai, P. APMB. Margaritis, A. Washington : American Society for Microbiology. Applied and environmental microbiology. Dec 1982. v. 44 (6). p. 1325-1329. Includes references. (NAL Call No.: 448.3 AP5).

2902

Metabolic interactions between *Saccharomyces cerevisiae* and *Leuconostoc oenos* in a model grape juice/wine system.

AJEVA. King, S.W. Beelman, R.B. Davis, Calif. : American Society of Enologists. American journal of enology and viticulture. 1986. v. 37 (1). p. 53-60. Includes 31 references. (NAL Call No.: DNAL 390.9 AM33).

FOOD CONTAMINATION, LIVESTOCK

2903 2904

**Residues of the plant growth regulator
mefluidide**

**(N-(2,4-dimethyl-5-(((trifluoromethyl)sulfonyl-
amino)phenyl)acetamide) in the milk and
tissues of lactating dairy cows: a 28-day
feeding study. Residues of the plant growth
regulator mefluidide**

**(N-(2,4-dimethyl-5-(((trifluoromethyl)sulfonyl-
amino)phenyl)acetamide) in the milk and
tissues of lactating dairy cows: a 28-day
feeding study.**

Clark, D.E. Clark, D.E. Coppock, C.E.; Ivie,
G.W. Coppock, C.E.; Ivie, G.W. Washington,
D.C., American Chemical Society. Washington,
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1175-1179. p. 1175-1179. 10 ref. 10 ref. (NAL
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FOOD CONTAMINATION, HORTICULTURAL CROP

2905

Citrus fruits-- varieties, chemistry, technology, and quality evaluation. Part I: Varieties, production, handling, and storage.
Ramana, K.V.R. Govindarajan, V.S.; Ranganna, S. Boca Raton, Fla., CRC Press. Abstract: A critical account is presented on various aspects of the characteristics and use of citrus fruits. Citrus fruit topics covered in detail include: classification, breeding, diseases (causing loss), production, growth in various countries, composition (as affected by various factors), maturity standards (for harvesting), harvesting, commercial handling, and storage. Factors causing crop loss are reviewed, including infectious diseases (fungal, bacterial, viral), nematodes, and pests. Factors affecting fruit composition are discussed: rootstock characteristics, climate, tree age and density, nutrient status effects (e.g., phosphorus, potassium, calcium, nitrogen, trace elements, vitamin C), growth regulators, chemical sprays, and growth and maturation effects. Harvesting, handling, grading, and storage procedures are reviewed. Control of post-harvest diseases and changes in chemical constituents during storage are discussed. Numerous tabular data are included. (wz). CRC critical reviews in food science and nutrition. Dec 1981. Literature review. v. 15 (4). p. 353-432. ill., charts. 411 ref. (NAL Call No.: TP368.C7).

2906

Daminozide and unsymmetrical dimethylhydrazine (UDMH) residues in fresh and processed Red Delicious' apples.
JFPRDR. Rymal, K.S. Dozier, W.A. Jr.; Knowles, J.W.; Cospers, R.D.; Reed, R.B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Extract: Daminozide is a growth regulating substance widely used on apples and other fruit crops to affect various fruit and tree characteristics. Daminozide residues were determined in Starkrimson' Red Delicious apples orchard-sprayed at both recommended and excessive rates, at recommended periods before expected harvest, and at several application times closer to harvest than recommended. Analyses were conducted on the whole raw fruit, including the peeling, and on applesauce processed from the peeled and cored fruit, immediately after harvest, and after cold storage periods of 30, 60, and 90 days. Residues in both the fresh and processed fruit were directly proportional to the concentration of daminozide in the foliar sprays, regardless of application date. The highest residues in both fresh and processed apples were in fruit from trees sprayed 14 to 28 days before harvest at all spray concentrations. Residues from all spray concentrations and all application dates were persistent for 90 days at 0 degrees C storage for fresh fruit and at 23 degrees C storage for processed fruit. Only the residues in fruit sprayed with 4 times the recommended level at 2 or 4 weeks before harvest exceeded the U.S. Environmental Protection Agency tolerance level (30 ppm). Residues ranged from less than 2 to 32 ppm. Unsymmetrical

dimethylhydrazine (UDMH) levels were directly proportional to the daminozide residues in the applesauce. Average UDMH residues ranged from 0.03 ppm for fruit sprayed with the recommended rate of daminozide to 0.8 ppm for fruit with the highest daminozide residues. (author). Journal of food protection. March 1984. v. 47 (3). p. 242-244. charts. Includes 16 references. (NAL Call No.: DNAL 44.8 J824).

2907

Effects of some postharvest and storage treatments on the incidence of flesh browning in controlled-atmosphere-stored 'Delicious' apples (Physiological disorders, calcium, gibberellic acid, diphenylamine).
Meheriuk, M. Lau, D.L.; Hall, J.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1984. v. 109 (3). p. 290-293. Includes references. (NAL Call No.: 81 SD12).

2908

New method for the determination of 1,1-dimethylhydrazine residues in apples and peaches.
JANCA2. Wright, D. Jr. Arlington, Va. : The Association. Association of Official Analytical Chemists journal. July/Aug 1987. v. 70 (4). p. 718-720. Includes references. (NAL Call No.: DNAL 381 AS7).

2909

Proper use of alar on apples poses no residue problem (Growth regulators, residues in fresh and processed fruit).
Rymal, K.S. HARAA. Dozier, W.A. Jr.; Knowles, J.W.; Cospers, R.D. Auburn : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1983. v. 30 (2). p. 6. ill. Includes references. (NAL Call No.: 100 AL1H).

2910

Residue analysis of beta-naphthoxyacetic acid and beta-naphthol (plant growth-regulating chemicals) on field-sprayed tomatoes by high-pressure liquid chromatography.
Archer, T.E. Stokes, J.D. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1980. v. 28 (4). p. 877-880. 4 ref. (NAL Call No.: 381 J8223).

FOOD COMPOSITION, FIELD CROP

2911

Amino acid composition of malts: effect of germination and gibberellic acid on hulled and hullless barley and utility wheat.

JAFCAU. Singh, T. Sosulski, F.W. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1986. v. 34 (6). p. 1012-1016. Includes references. (NAL Call No.: DNAL 381 J8223).

2912

Effects of plant growth regulators on the thermal properties of corn starch isolated from normal and mutant genotypes.

PPGGD. Krueger, B.R. Knutson, C.A.; Inglett, G.E.; Walker, C.E. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 267-286. Includes references. (NAL Call No.: DNAL SB128.P5).

2913

Field evaluations of Cytozyme for improving crop yield and nutrient content.

CSOSA2. Wolkowski, R.P. Kelling, K.A.; Oplinger, E.S. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Nov 1985. v. 16 (11). p. 1199-1209. Includes 10 references. (NAL Call No.: DNAL S590.C63).

2914

Pyridazinones and soybean oil quality.

Terlizzi, D.E. St John, J.B.; Christiansen, M.N. Champaign, Ill. : The Society. Monograph - American Oil Chemists' Society. 1984. (11). p. 107-117. Includes references. (NAL Call No.: DNAL TP670.A1A6).

FOOD COMPOSITION, HORTICULTURAL CROP

- 2915**
Absorption and translocation of some growth regulators by tomato plants growing under UV-B radiation and their effects on fruit quality and yield.
Prudot, A.P.FSHA. Basiouny, F.M. Lake Alfred : The Society. Proceedings of the ... annual meeting - Florida State Horticultural Society. 1982. v. 95. p. 374-376. Includes references. (NAL Call No.: 81 F66).
- 2916**
Auxin-related invertase activity in strawberry fruits.
JOSHB. Poovaiah, B.W. Veluthambi, K. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Mar 1985. v. 110 (2). p. 258-261. Includes 16 references. (NAL Call No.: DNAL 81 S012).
- 2917**
Chemical thinning, hand thinning and growth regulator impact on size of apple fruit.
PWHAA. Williams, M. Wenatchee, Wash. : The Association. Proceedings - Washington State Horticultural Association. 1985. (81st). p. 96-106. Includes references. (NAL Call No.: DNAL 81 W273).
- 2918**
Determination of gibberellic acid residues on fruits by synchronous scanning derivative spectrofluorometry.
JANCA2. Cruces Blanco, C. Garcia Sanchez, F. Arlington, Va. : The Association. Journal of the Association of Official Analytical Chemists. Jan/Feb 1986. v. 69 (1). p. 105-109. Includes 24 references. (NAL Call No.: DNAL 381 AS7).
- 2919**
Effect of foliar application of auxin on the quality of potatoes.
Chandra, S. Mondy, N.I. Chicago, Institute of Food Technologists. Journal of food science. Nov/Dec 1981. v. 46 (6). p. 1870-1873. ill. Includes 28 ref. (NAL Call No.: 389.8 F7322).
- 2920**
Effect of paclobutrazol (PP333) and dichlorobutrazol on growth and quality of apples.
NEMFA. Greene, D.W. Sincuk, J.; Kaminsky, K. North Amherst, Mass. : The Association. New England fruit meetings ... Proceedings of the ... annual meeting - Massachusetts Fruit Growers' Association. 1985. v. 91. p. 62-66. (NAL Call No.: DNAL 81 M384).
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