GROWTH CONTROL IN TREES

VOLUME II

Literature Titles For Basic And Applied Research

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ONTARIO HYDRO FORESTRY DEPARTMENT

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by

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ONTARIO HYDRO FORESTRY DEPARTMENT

&

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INTRODUCTION

The field of growth regulation is one which must assume greater importance in the future approaches to chemical manipulation of our environment. Our ability to tailor plants to specific size requirements without causing their death will have considerable impact on the quality of our living space and thus our future way of life. No longer will it be acceptable to destroy our vegetation to the degree that affects the habitat of creatures, man and beast - or produce patterns which are unacceptable to the basic balances of nature. Moreover, as space requirements for agriculture become more pressing to meet the demand for the food that our rapidly growing world population needs, producers will have no alternative but to drastically revise some current agronomic practices. One such approach in this area will be to produce smaller plants which give greater yields. Although genetic improvement can accomplish this end, such breeding is a long and arduous task. A task which demand may overwhelm.

There is now however a new and formidable range of chemicals which, although in part similar to herbicides, give a much more extensive capability for the physiologist and agronomist to control the rate of growth, mature size, time of first maturation or in some cases the time of senescence in a number of crops. Thus the ultimate yield of some plants may be enhanced many times with more efficient harvesting with less wastage, or through greater production of the plant itself.

Although agriculture will surely be the greatest beneficiary of these new abilities of man ever striving to feed himself, there are other important potential uses for these materials. Their use on woody plants has been demonstrated by a number of researchers and the possible benefits in this area should not be neglected.

It is for this reason that Ontario Hydro undertook an extensive examination of growth regulators as they may be used on large woody plants. Not only may they be used to control the formation of suckers from dormant and adventitious buds on trees which have been pruned, but they hold the potential for replacing some functions presently undertaken with herbicides.

Part of our study has been directed toward a complete review of the literature pertaining to the use of growth regulators on woody plants and also on grass. It will however be some time before this review is written and in the interim we felt that a monograph of literature titles would be of particular use to our co-workers. The lists of titles also cover related subjects and are broken into three major parts; growth regulators and associated topics (woody plants), growth regulators and associated topics (grass) and finally wound healing (woody plants). In all some 84 major scientific publications have been reviewed while a number of other publications and private reports have been listed. Each section has been organized by author and space left in each part for the addition of new papers.

Although published papers are of greater use to the researcher since they contain their author's recent work in some depth, there are a number of valuable text books which it would be amiss not to mention. A short list of these to which we have referred from time to time is added after the major sections. It is not intended to be complete and it will be for the individual to add specific texts which he or she requires. A separate section detailing the work undertaken within Ontario Hydro by various workers is included since some research has been for internal use only and has not been published in outside journals.

Where it was found impossible to determine the date or original journal of publication for some papers the work has been noted by title and page numbers only and spaces left for the appropriate date to be added.

If any obvious omissions have been made in any of the sections we apologize to the writers and hope that their contributions may be subsequently added to this monograph.

Much of the work for this publication was completed while the senior author was a member of the staff of the Hydro Electric Power Commission of Ontario and was completed in August of 1971.

R. Gardner
Edinburgh, May 1972.

JOURNALS REVIEWED FOR GROWTH RETARDATION

LITERATURE SURVEY 1971

The Australian Journal of Experimental Agriculture and Animal Husbandry	1961 on
Australian Journal of Biological Sciences	1969 on
American Fruit Grower	1965 on
Australian Journal of Botany	1960 on
American Society for Horticultural Science	1903 on
American Journal of Botany	1965 on
American Agronomy Journal	1960 on
American Journal of Agricultural Economics	1968 on
Annals of Applied Biology - Cambridge	1920 on
Annals of the Missouri Botanical Garden	1965 on
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Annals of Botany	1887 on
Agricultural Hortique Genetica - Reports of the Plant Breeding Institute Weibullsholm Landskrona	1965 on
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Biological Journal of Linneon Society	1956 on
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Journal of the Chinese Agricultural Chemical Society	1963 on
Journal of the American Society of Agronomy	1940-48
Journal of the Agricultural Society of Trinidad and Tobago	1963
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Molecular Biology - USSR	1969 on
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Plant Physiology	1926 on
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Plant and Soul - The Netherlands	1969 on
Plant and Cell Physiology - Japan	1968 on
Plant Propagator	1968 on
Proceedings of the Royal Society of Botany	1934 on
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Proceedings of the International Shade Tree Conference	1960 on
Queensland Agricultural Journal - Australia	1965 on
Royal Agricultural Society of England Journal	1969 on
Rubber Chemistry and Technology	1969 on
Science	1957 on
South Florida Nurserymen	1966 on
Scientific American	1957 on
Scientific Agriculture - Ontario Agric. College	1921
Soviet Plant Physiology	1965 on
Tropical Agriculturist - Ceylon	1967 on
Tokyo Journal of Agricultural Research	1965 on
Weed Science	1957 on
Weed Abstracts	1968 on
Wood Science and Technology	1967 on
Wood Science	1968 on
Wood and Fibre	1963 on
Weed Research - European Weed Research Council	1965 on

LITERATURE TITLES - GROWTH REGULATORS

AND ASSOCIATED TOPICS

(WOODY PLANTS)

Abbott, R.E., 1966. Chemical control of plant growth, past, present and future. Proc. Northeastern Weed Control Conference 20: 18-23.

Abbott, R.E., 1964. Chemicals sought for tree control. Electrical World, December : 60, 61, 92 and 93.

Abbott, R.E. 1965. The future of woody plant control. Proc. International Shade Tree Conference 41: 139-142.

Abbott, R.E., 1971. Some experiences with tree growth inhibitors. Panel presentation, Ohio State University Short Course.

Abraham, P.D., 1968. Effects of plant growth regulators and other compounds on flow of latex in Hevea brasiliensis. Annals of Applied Biology 62: 159-173.

Adamson, D., 1962. Expansion and division in Auxin-treated plant cells. Canadian Journal of Botany 40: 719-744.

Addicott, F.T., 1969. Physiology of Abscisic acid and related substances. Plant Physiology 20: 139-164. Annual Review.

Adedipe, N.O., 1970. Plant growth retardants and Phosphorus metabolism. Journal of Experimental Botany 21(67): 414-417.

Allary, S., 1958. Physiologie vegetale. - La liberation d'auxine diffusible par les organes aeriens des vegetaux ligneux. Academie Des Sciences, de France: 2187-2192.

Allen, R.M., 1960. Changes in acid growth substances in terminal buds of Longleaf Pine saplings during the breaking of winter dormancy. Physiologia Plantarum 13: 555-558.

Allsopp, A., 1956. Apical dominance in Marsilea, with particular reference to the effects of 3-Indolylacetic Acid, 3-Indolylacetonitrile, and Coumarin on lateral bud development. Journal of Experimental Botany 7 (19): 14-24.

_____, 1970. Annotated bibliography of selected references to naturally occurring plant growth regulators and inhibitors. Weed Research Organization, Oxford: 1-6.

_____, 1969. First Gaseous Hormone. Nature 224: page 114.

_____, 1958. Gibberellic Acid - An unusual plant regulating chemical. ARS Special Report. ARS 22-47: 1-21.

_____, 1970. Growing forces in the field of plant growth. Ground Maintenance, 16 and 18.

_____, 1969. Growth Regulation. A detailed report on the impact of technological change on the use of growth regulators. Technomic Research Assocs. Chicago, U.S.A.

_____, 1968. Growth retardant reduces tree trimming cost. Electrical World, April, page 52.

_____, 1971. Final Report of the Edison Electric Inst. Tree Growth Control Research Project, EEI Project RP24. 1-127.

_____, 1966. Promising sprout inhibitor developed under EEI Tree Growth Control Research Project. Edison Electric Institute Bullein. 31: page 125 and 159-166.

_____, 1963. Tree Growth Control Research Projects. Edison Electrical Institute Bulletin: 159-161 and 166.

Armstrong, R.E., 1971. Tree Growth Control Research Project Completed. Edison Electric Institute Bulletin. 80-82.

Ashbaugh, F.A., 1969. EEI Tree Growth Control Project 1968 Progress Report. Proc. International Shade Tree Conference 44: 169-172.

Ashbaugh, F.A., 1966. Status of EEI - Battelle tree growth retardant research project after leaf fall 1966, (personal communication)

Ashby, W.C., 1961. Bud break and growth of Basswood as influences by daylength, chilling and Gibberellic Acid. Botanical Gazette 123-4: 162-170.

Avery, G.S., 1947. Chemical control of plant growth. Economic Botany I: 176-187.

Avery, G.S., 1942. Comparative activity of synthetic auxins and derivatives. Botanical Gazette 104: 281-287.

Avery, G.S., 1936. Polarized growth and cell studies on the Avena coleoptile, phytohormone test object. Bul. Torrey Botanical Club 63(1): 1-15.

ADDITIONS

Badr, S.A., 1970. Effects of Gibberellic Acid and Indoleacetic Acid on shoot growth and Xylem differentiation and development in the Olive, Olea europaea L., Proc. Amer. Soc. Hort. Sci. 95(4): 431-434.

Baker, E.A., 1964. Studies on plant cuticle VII. The nature and determination of cutin. Ann. Appl. Biol. 53: 59-65.

Baker, R.L., 1963. The influence of photoperiod on the rooting of cuttings of some woody ornamental plants. Proc. Amer. Soc. Hort. Sci. 82: 596-601.

Balatinecz, J.J., 1966. Pattern of renewed cambial activity in relation to exogenous auxin in detached woody shoots. Canadian Journal of Botany 44: 1108-1110.

Ballantyne, D.J., 1961. Growth regulators and the flowering of evergreen Azaleas (Rhododendron cv). Proc. Amer. Soc. Hort. Sci. 78: 521-531.

Barden, J.A., 1968. Effects of Alar on the growth and distribution of the growth increment in one year old Apple trees. Proc. Amer. Soc. Hort. Sci. 93: 33-39.

Barlow, H.W.B., 1949. Studies in abscission, I. Factors affecting the inhibition of abscission by synthetic growth-substances. Journ. of Experimental Botany I(3): 264-281.

Batjer, L.P., 1964. Effects of N-Dimethyl Amino Succinamic Acid (B-Nine) on vegetative and fruit characteristics of Apples, Pears, and Sweet Cherries. Proc. Amer. Soc. Hort. Sci. 85: 11-16.

Batjer, L.P., 1947. Further studies with 2,4-Dichlorophenoxyacetic Acid sprays in retarding fruit drop of Winesap Apples. Proc. Amer. Soc. Hort. Sci. 48: 45-48.

Baver, L.D., 1941. The relation of soil factors to the growth of trees. Proc. National Shade Tree Conference 17: 147-149.

Bentley, J.A., 1950. Growth regulating effect of certain organic compounds. Nature 165 (4194): page 449.

Bergstrom, B.W., 1966. Tree growth retardants. Proc. International Shade Tree Conference 42: 191-194.

Biale, J.B., 1937. The use of Heteroauxin in rooting of subtropicals. Proc. Amer. Soc. Hort. Sci. 35: 443-447.

Bilan, M.V., 1962. Effect of gibberellin on growth and development of Loblolly Pine seedlings. Journal of Forestry: 60 (6): 391-394.

Billington, R.W., 1970. Effects of inhibitors on light-stimulated synthesis in Radish hypocotyl. Nature 227: 858-860.

Blackman, G.E., 1959. The Uptake of Growth Substances. I. Factors controlling the uptake of Phenoxyacetic Acids by Lemna Minor. Journ. of Experimental Botany 10 (28): 33-54.

Blackman, G.E., 1959. The Uptake of Growth Substances II. The absorption and accumulation of 2:3:5-Triiodobenzoic Acid by the root and frond of Lemna Minor. Journ. of Experimental Botany 10(30): 480-503.

Blackmon, G.H., 1946. Experiments with growth substances on Pecans. Proc. Amer. Soc. Hort. Sci. 47: 147-148.

Bonner, J., 1949. The role of toxic substances in the interactions of higher plants. The Botanical Review 10: 51-65.

Bosworth, H.N., 1948. Panel discussion. National Shade Tree Conference, (Arborist's News) 13(12): 125-126.

Bovey, R.W., 1969. Occurrence of plant growth inhibitors in Tropical and Subtropical vegetation. Physiologia Plantarum 22: 253-259.

Bowen, M.R., 1968. Inhibitor content of Phloem and Xylem sap obtained from Willow (Salix viminalis L.) entering dormany. Planta (Berl.) 81(1): 64-70.

Bowersox, T.W., 1968. Auxin inhibition of epicormic shoots in White Oak. Forest Science 14(2): 192-196.

Borthwick, H.A., 1962. Role of Phytochrome in control of flowering of Chrysanthemum. Botanical Gazette 123(3): 155-162.

Brown, C.L., 1967. Apical dominance and form in woody plants: a reappraisal. Amer. J. Bot. 54(2): 153-162.

Brown, G.K., 1966. An analysis of the effects of the growth inhibitor "Tre-Hold". Proc. International Shade Tree Conference: 42: 172-174.

Brown, G.K., 1969. Growth inhibitor cuts line clearance costs. Electrical World, March: 28-29.

Brown, G.K., 1969. Panel discussion, observations on present practices with tree growth inhibitors, presented at Northeastern Weed Control Conference: 1-2.

Brown, G.K., 1966. Tree growth inhibitor trials on the Georgia Power Company system. Proc. International Shade Tree Conference 42:194-195.

Bruinsma, J., 1962. Chemical control of crop growth and development. Netherlands Journal of Agricultural Science 10(5): 409-426.

Bruns, R.R., 1966. Progress of tree growth control experiments. Proc. International Shade Tree Conference 42: 195-201.

Burley, J.W.A., 1967. Basic tree physiology. Proc. International Shade Tree Conference 43: 23-30.

Butler, E.J., 1930. Some aspects of the morbid anatomy of plants. Annals of Applied Biology 17(2): 175-212.

Byers, R.E., 1969. Effects of Succinamic Acids 2,2-dimethyl hydrazide (Alar) on Peach fruit maturation and tree growth. J. Amer. Soc. Hort. Sci. 94(1): 641-645.

ADDITIONS

Cain, J.C., 1956. Effects of Nitrogen and pruning on trunk growth in Peaches. American Society for Horticultural Science 67: 139-143.

Cannon, T.F., 1963. The effect of Maleic Hydrazide on forcing of Azaleas. American Society for Horticultural Science 83: 741-744.

Canny, M.J., 1968. The velocity of translocation in trees. Australian Journal of Botany 16: 479-485.

Carlton, W.M., 1943. Histological and cytological responses of roots to growth-regulating substances. Botanical Gazette 105: 268-281.

Carpenter, S.B., 1967. Brushkiller stimulates adventitious rooting of tropical Ash in Hawaii. Journal of Forestry 65(6): page 421.

Catchpole, A.H., 1969. Effect of Ethylene on tuber initiation in Solanum tuberosum L. Nature 223: page 1387.

Cathey, H.M., 1956. Het verbreken van de winterrust bij Forsythia door warm water en chemicalien. Overdruk uit Mededelingen Directeur van de Tuinbouw 19: 768-773.

Cathey, H.M., 1958. Growth and flowering of Chrysanthemum morifolium (Ramat) as affected by time of application of Gibberellic Acid. American Society for Horticultural Science 71: 547-554.

Cathey, H.M., 1959. Poinsettia study, changing growth and flowering by use of Carvacrol Form of Amo-1618. Florists' Review, June.

Cathey, H.M., 1959. Effects of Gibberellin and Amo-1618 on growth and flowering of Chrysanthemum morifolium on short photoperiods, photoperiodism and related phenomena in plants and animals. Am. Assoc. for the Advancement of Science: 365-371.

Cathey, H.M., 1960. Effectiveness of a Quaternary Ammonium Carbamate and a Phosphonium in controlling growth of Crysanthemum morifolium (Ramat). American Society for Horticultural Science 76: 609-619.

Cathey, H.M., 1960. Relation of Phosfon to photoperiod, kind of supplemental light, and night temperature on growth and flowering of garden annuals. American Society of Horticultural Science 77: 608-619.

Cathey, H.M., 1961. Comparative plant growth-retarding activity of Amo-1618, Phosfon, and CCC. Botanical Gazette 123: 51-57.

Cathey, H.M., 1962. New discoveries in plant growth. Horticultural Magazine 41(3): 156-162.

Cathey, H.M., 1962. Regulating the flowering of Bromeliads. Exchange for the Flower, Nursery and Garden Centre Trade pages 1-3.

Cathey, H.M., 1963. Physiology of growth retarding chemicals. Ann. Ref. Plant Physiol 15: 271-302.

Cathey, H.M., 1963. Horticulturists study effects of growth retardants on plants. Florists' Review 132(3426): 35, 81-84.

Cathey, H.M., 1964. Pacing development of woody plants. Proc. International Plant Propagators Society Annual Meeting 1964: pages 60-65.

Cathey, H.M., 1964. Relation of phosfon structure to its growth retarding activity. Pyton 21(2): 203-208.

Cathey, H.M., 1964. Relation of the structure of fatty acid derivatives to their action as chemical pruning agents. Plant Growth Regulators. S.C.I. Monograph No. 31: 224-235.

Cathey, H.M., 1965. Plant selectivity in response to variation in the structure of Amo-1618. Pyton 22(1): 19-26.

Cathey, H.M., 1965. Regulating flowering of Rhododendrons: Light and and growth retardants. American Nurseryman, January.

Cathey, H.M., 1966. Abortion of flower buds in Chrysanthemum after application of a selected petroleum fraction of high aromatic content. Horticultural Science 1(2):

Cathey, H.M., 1966. Chemical pruning of plants. Science 153(3742): 1382-1383.

Cathey, H.M., 1967. Chrysanthemum morifolium (Ramat) and the induction of flowering. U.S. Dept. of Agric., Maryland, Reprint: 267-290.

Cathey, H.M., 1968. Changing growth and flowering of Chrysanthemums by use of a Quaternary Ammonium Compound, Amo-1618, U.S. Dept. of Agric., Beltsville, Maryland.

Cathey, H.M., 1968. Timing and tailoring flowering plants. Yearbook Separate 3603, and 1968 U.S. Yearbook of Agriculture, Superintendent of Documents, Washington.

Cathey, H.M., 1968. Plant growth substances. Encyclopedia of Chemical Technology 15(2): 675-688. (John Wiley & Sons. Inc.)

Cathey, H.M., 1968. Response of Dianthus caryophyllus L. (Carnation) to synthetic Abscisic Acid. American Society for Horticultural Science 93: 560-568.

Cathey, H.M., 1968. Response of some ornamental plants to synthetic Abscisic Acid. American Society for Horticultural Science 93: 693-698.

Cathey, H.M., 1969. Plant selectivity in response to variation in the structure of Succinic Acid 2, 2-dimethylhydrazide (B995). Pyton 26(1): 77-85.

Cathey, H.M., 1969. Enhancing activity of chemical growth retardants, Part I. Modification of chemical structure. Southern Florist and Nurseryman: 1-6.

Cathey, H.M., 1969. Guidelines for the germination of annual pot plant and ornamental herb seeds. Florists' Review 144 (3744): 26-29 and 75-77.

Cathey, H.M., 1970. Chemical pruning. Grounds Maintenance 1, 54 and 55.

Cathey, H.M., 1970. Chemical pruning of plants. Southern Florist and Nurseryman, March.

Cathey, H.M., 1970. The new, next chemical growth regulators for plants. Supplement to Northeastern Weed Control Conference 24: 229-234.

Cathey, H.M., 1971. Policy statement for nomenclature of plant growth regulators. Hort.Science 6(1): page 8.

Catterjee, S., 1963. Auxin structure and abscission activity. Plant Physiology 38(1): 268-273.

Chadwick, L.C., 1935. Chlorosis of Pin Oaks. American Society for Horticultural Science 33: 669-673.

Chadwick, L.C., 1938. The effect of synthetic growth substances on the rooting and subsequent growth of ornamental plants. American Society for Horticultural Science 36: 809-816.

Chadwick, L.C., 1940. Further studies on the effects of synthetic growth substances on cuttings and seeds. American Society for Horticultural Science 38: 690-694.

Chadwick, L.C., 1951. The prevention of fruit formation on some ornamental trees. American Society for Horticultural Science 58: 308-312.

Chailakhyan, M.Kh., 1967. Influence of retardants on the growth and flowering of plants. Fiziologiya Rastenu 14(5): 773-784.

Chua, S.E., 1970. Phytokinin-like activity of 8-Quinolinol Sulphate. Nature 225: 101-102.

Clark, F.B., 1967. Pole-sized Black Walnut respond quickly to crown release. Journal of Forestry 65: 406-407.

Clark, G.G., 1963. Studies on plant growth-regulating substances XVII Chloromethylphenoxyacetic Acids and Chloromethylphenylglycines. Ann. Appl. Biol. 51: 453-458.

Cleland, R., 1965. Evidence on the site of action of growth retardants. Plant and Cell Physiology 6: 7-15.

Commoner, B., The mechanisms of auxin action. Plant Physiology : 682-685.

Cooke, A., 1969. Current cleared commercial uses for growth regulators. Proc. of Weed Sci. Soc. of Am. Convention: 1-5.

Cooper, W.C., 1968. Effect of growth regulators on the coloring and abscission of Citrus Fruit. Israel Journal of Agriculture 18(4): 161-174.

Cooper, W.C., 1955. Effects of plant regulators on dormancy, cold hardiness and leaf form of Grapefruit trees. American Society for Horticultural Science 66: 100-110.

Cooper, W.C., 1939. The effect of synthetic growth substances on the rooting of Subtropical fruit plants: American Society for Horticultural Science 37: 1093-1098.

Cooper, W.C., 1936. Transport of root-forming hormone in woody cuttings. Plant Physiology 11: 779-793.

Cradock, S., 1968. Studies in Germyl chemistry, Part VII. Vibrational spectra of Digermyl Ether, Methoxygermane, and Methylthiogermane. Journal of the Chemical Society Section A, Part II 1426-1431.

Crafts, A.S., 1938. Translocation in plants. Plant Physiology 13: 791-814.

Cran, H.J., 1969. Economical chemical vegetation management - Will it meet tomorrow's beautification and conservation needs? Northeastern Weed Control Conference 23: 1-5.

Cran, H.J., 1970. EEI Tree Growth Control Research Project RP24, summary of field results. Unpubl. data: 1-7.

Crane, J.C., 1949. Controlled growth of Fig Fruits by synthetic hormone application. American Society for Horticultural Science 47: 102-108.

Crane, J.C., 1956. The effect of 2, 4, 5-Trichlorophenoxyacetic Acid on growth, moisture and sugar content of Apricot Fruits. American Society for Horticultural Science 68: 105-112.

Crane, J.C., 1967. Further studies on growth-regulator-induced parthenocarpy in the 'Bing' Cherry. American Society for Horticultural Science 92: 113-118.

Creed, L.D., 1971. Development of Naphthaleneacetic Acid (NAA) as a growth retardant. Panel at Ohio State Short Course: pages 1 - 8.

Critchfield, W.B., 1970. Shoot growth and heterophylly in Gingko biloba. Botanical Gazette 131(2): 150-162.

Currier, H.B., 1959. Foliar penetration of herbicides - Review and present status. Weeds 8: 195-213.

ADDITIONS

Daubenmire, R.F., 1949. Relation of temperature and daylength to the inception of tree growth in spring. Botanical Gazette 110: 464-475.

Davis, E.A., 1968. A laboratory chamber for rooting cuttings. Botanical Gazette 129(1): 86-89.

Davis, F.S., 1968. Effect of moisture stress on the absorption and transport of herbicides in woody plants. Botanical Gazette 129(3): 183-189.

Davis, H.F., 1963. Shade tree spraying: The Tree, The Public, The Arborist. Proc. International Shade Tree Conference 39: 101-110.

DeBell, D.S., 1970. Phytotoxins, new Problems in Forestry? Journal of Forestry 68(6): 335-337.

Degani, Y., 1970. DNA synthesis and hormone-induced elongation in the Cucumber hypocotyl. Nature 228: 554-555.

Delfel, N.E., 1966. Evaluation of Phosfon and Maleic Hydrazide as late season yield stimulants on Sugar-cane. Tropical Agriculture 43(3): 199-210.

Dennis, F.G., 1970. Effects of Gibberellins and Naphthaleneacetic Acid on fruit development in Seedless Apple clones. American Society for Horticultural Science 95(1): 125-128.

Dodge, A.W., 1942. Practical aspects of tree injection for disease control. Proc. National Shade Tree Conference 18: 154-163.

Domanski, R., 1969. Interactions of applied growth regulators and temperature on root initiation in Salix cuttings. American Society for Horticultural Science 94: 39-41.

Donoho, C.W., 1961. The absorption and translation of ring labelled C^{14} Naphthaleneacetic Acid in the Apple and Peach. American Society for Horticultural Science 78: 96-103.

Downs, R.J., 1956. Effects of photoperiod on growth of trees. Botanical Gazette 117: 310-335.

Doxey, D., 1953. The use of Radioactive Iodine in the study of a plant growth regulator. Journal of Experimental Botany 4(10): 53-58.

Drennan, H.O., 1965. A report on growth retardant MH-30T in North and South Carolina. Proc. International Shade Tree Conference 41: 143-148.

Dubrov, A.P., 1970. Effect of the geomagnetic field on physiological processes in plants. Soviet Plant Physiology 17(4): 699-704.

Duff, G.H., 1953. Growth and morphogenesis in the Canadian forest species I. The controls of Cambial and Apical activity in Pinus resinosa Ait. Canadian Journal of Botany 31: 471-513.

Dybing, C.D., 1958. Foliar penetration by chemicals. Plant Physiology 35: 169-174.

ADDITIONS

Eagles, C.F., 1963. Dormancy regulators in woody plants. Nature 199: 874-875.

Edgerton, L.J., 1947. Growth substances, Results and Discussion. American Society for Horticultural Science 49: 43-44.

Edgerton, L.J., 1965. Some effects of Gibberellin and growth relation on bud development and cold hardiness of Peach. American Society for Horticultural Science 88: 197-203.

Eidt, D.C., 1969. Growth regulation. Insect control through induced host-insect Asyndrony - A progress report. Proc. of the 19th Annual meeting of the Entomological Society of Canada.

El-Antably, H.M.M., 1967. Some physiological responses to D Abscisin (Dormin) Plant (Berl.) 73: 74-90.

Eliasson, L., 1969. Growth regulators in Populus tremula I. Distribution of auxin and growth inhibitors. Physiologia Plantarum 22: 1288-1301.

Ellis, A.H., 1967. What does the utility company need most today? Western Chapter International Shade Tree Conference 43: 350-353.

Ellis, A.H., 1964. Chemicals may slash tree trimming costs. Electrical World, December. page 36.

Engelbrecht, L., 1969. Leaf-miner caterpillars and Cytokinins in the "Green Islands" of Autumn leaves. Nature 223: 319-321.

Epstein, S.S., 1970. Control of chemical pollutants. Nature 228: 8816-819.

Evans, L.T., 1966. Abscisin II: Inhibitory effect on flower induction in a long-day plant. Science 151: 107-108.

Evert, D.R., 1967. The physiology of cold hardiness in trees. Proc. International Shade Tree Conference 43: 40-52.

Evrard, T.O., 1965. Inhibition of tree growth with various chemicals. Proc. Northeastern Weed Control Conference 19: 397-398.

Eyster, H.C., 1961. The importance of chlorophyll for tree growth. Proc. National Shade Tree Conference 27: 36-42.

ADDITIONS

Farmer, R.E., 1962. Aspen root sucker formation and apical dominance. Forest Science 8(4): 403-410.

Fawcett, C.H., 1959. Plant-growth substances and the Copper Chelation Theory of their mode of action. Nature 184: 796-798.

Fawcett, C.H., 1956. Plant growth-regulating activity in certain Carboxylic Acids not possessing a ring structure. Nature 178: 972-974.

Felt, E.P., 1943. Delayed winter injury. Proc. National Shade Tree Conference 19: 19-22.

Fensom, D.S., 1970. Micro-injection of ^{14}C-Sucrose into single living sieve tubes of Heracleum. Nature 227: 857-858.

Fernandes, A.M.S.S., 1965. Studies on plant cuticle VIII. Surface waxes in relation to water-repellency. Annals of Applied Biology 56: 297-304.

Ferri, M.G., 1945-1947. Preliminary observations on the translocation of synthetic growth substances. Contribution from Boyce Thompson Institute 14: 51-68.

Ford, H.E., 1961. Bacteria associated with cut flower containers. American Society for Horticultural Science 77: 635-636.

Forshey, C.G., 1970. The use of Alar on vigorous 'McIntosh' Apple trees. American Society for Horticultural Science 95(1): 64-67.

Foster, R.J., 1955. Auxin-antiauxin interaction at high auxin concentrations. Plant Physiology 30: 323-327.

Fraser, D.A., 1967. Sixth International Conference on Plant Growth Substances. Forestry Chronicle 43(4): 385-387.

Freeman, J.A., 1970. Use of Succinic Acid 2, 2-Dimethyl Hydrazide (Alar) to reduce winter injury in Strawberries. Canadian Journal of Plant Science 50: 189-190.

Fuller, R.G., 1965. The EEI-Battelle tree growth retardant research project. Proc. International Shade Tree Conference 41: 151-155.

Fuller, R.G., 1965. Tree wound dres ing for sprout control in pole line trimming. Edison Electric Institute Bulletin, September.

Fults, J.L., 1947. A biometric evaluation of the growth-regulating and herbicidal properties of some organic compounds. Journal of the American Society of Agronomy 39: 667-681.

ADDITIONS

Galston, A.W., 1969. Hormonal regulation in higher plants. Science: 163: 1288-2197.

Garb, S., 1961. Differential growth-inhibitors produced by plants. Botanical Review 27: 422-443.

Gardner, M.R., 1969. Chemical inhibition of woody plant growth - resumé of Forestry Department investigations in Ontario. Panel of the Northeastern Weed Control Conference pages 1-19.

Gardner, M.R., 1970. Growth control in trees - a study in the control of sucker growth on Utility pruned trees. Proc. International Shade Tree Conference 46: 64-69.

Gardner, M.R., 1970. Growth control in trees - a comparative study of four growth retardants applied as foliar sprays. Proc. Northeastern Weed Science Society 25: 332-344.

Gardner, M.R., 1971. Growth control in plants - evolution of and research requirements for the application of grwoth regulators in plant management. Invitation paper presented at symposium on growth regulators. Dow Chemical Company, Midland, U.S.A.

Gardner, M.R., 1971. The development and current status of right-of-way management in Ontario Hydro. Journal of the American Right of Way Association (in press).

Gardner, M.R., 1971. Sucker control after pruning. Guide to Chemical Weed Control. Ontario Department of Agriculture and Food, Publication 75: page 56.

Garraway, J.L., 1962. Studies on plant growth-regulating substances XVI. The auxin-activity of ω-(N, N-dimethylthiocarbamoylthio) alkanecarboxylic acids, and their β-oxidation within plant tissues. Ann. Appl. Biol. 50: 11-20.

Gaur, B.K., 1955. The promotion of abscission by auxin. Plant Physiology 30(6): 487-490.

Gericke, W.F., 1924. Growth-inhibiting and growth-stimulating substances. Botanical Gazette 78: 440-445.

Gesto, M.D.V., 1967. Growth substances isolated from woody cuttings of Quercus robur L. and Juglans regia L. Phytochemistry 6: 1687-1693.

Gibbons, G.S.B., 1970. Growth inhibitor production by root caps in relation to geotropic responses. Nature 226: 558-559.

Giertych, M.M., 1964. Endogenous growth regulators in trees. Botanical Review 30: 292-311.

Giertych, M.M., 1966. Growth regulator changes in relation to growth and development of Pinus resinosa ait. Canadian Journal of Botany 44(6): 717-738.

Gitlits, R.V., 1967. Absorption of Radioactive Phosphorus in trunks and branches of fruit trees during winter dormancy. Soviet Plant Physiology 14(1): 785-788.

Gopal, B.V., 1970. Observations on normal and abnormal stomatal features in four species of Asparagus L. American Journal of Botany 57(6): 665-669.

Gowing, D.P., 1961-63. Studies on the relation of chemical structure to plant growth-regulator activity in the Pine-apple plant IV. Hydrazine derivatives, compounds with an unsaturated Aliphatic Moiety and miscellaneous chemicals. Botanical Gazette 123-4: 34-43.

Gray, R.A., 1963. Hadacidin, a new plant-growth inhibitor produced by fermentation. Plant Physiology 38: 244-207.

Greene, M.T., 1958. The water content of Maple stems, I. Application of the Karl Fischer Method for the analyses of water in Maple bark and wood. Plant Physiology 33: 169-173.

Greenham, C.G., 1969. Modifications of techniques for the auto-radiography of woody plants. Weed Research 9(2): 148-149.

Greenwood, M.S., 1970. Polar transport and accumulation of Indole-3-Acetic Acid during root regeneration by Pinus lambertiana embryos. Planta 95: 297-313.

Gregory, F.G., 1955. The rate of transport of natural auxin in woody shoots. Annals of Botany 19(76): 451-465.

Griggs, W.H., 1967. Effects of Succinic Acid 2, 2-dimethyl Hydrazide (Alar) sprays used to control growth in 'Bartlett' Pear trees planted in hedgerows. American Society for Horticultural Science 92: 155-166.

Grimm, D.G., 1961. Methods of applying Maleic Hydrazide. Proc. Northeastern Weed Control Conference 15: 457-463.

Grover, R., 1967. Effects of chemical weed control on the growth pattern of conifer transplants. Weed Research 7: 155-163.

Gunckel, J.E., 1949. Studies of development in long shoots and short shoots of Gingko biloba L. III. Auxin production in shoot growth. American Journal of Botany 36(2): 145-151.

Gurevich, B.Kh., 1968. Physiological rhythms in plants (from data on the circadian rhythm of leaf movement). Soviet Plant Physiology 15(3): 443-449.

Gustafson, F.G., 1957. Influence of external and internal factors on growth hormone in green plants. Plant Physiology 21: 49-62.

ADDITIONS

Hackett, W.P., 1967. Chemical control of flowering in Bougainvillea "San Diego Red". American Society for Horticultural Science 90: 361-364.

Hahn, H., 1968. A Cytokinin test with high specificity. Planta 83: 115-118.

Haissig, B.E., 1970. Influence of Indole-3-Acetic Acid on adventitious root primordia of Brittle willow. Plant 95: 27-35.

Halevy, A.H., 1964. Effects of Gibberellin and growth-retarding chemicals on respiration and catalase activity in various organs of Cucumber seedlings. Journal of Experimental Botany 15(45): 546-555.

Halevy, A.H., 1965. Effect of growth retardants on longevity of vegetables, Mushrooms and cut flowers. American Society for Horticultural Science 88: 582-590.

Halevy, A.H., 1960. Effects of structure and concentration of Gibberellins on the growth of Cucumber seedlings. Botanical Gazette 122(1): 63-67.

Hamner, K.C., 1937. Histological reactions of Bean plants to growth promoting substances. Botanical Gazette 98: 735-807.

Hanna, W.J., 1962. Spectrochemical analysis of the foliage of certain trees and ornamentals for 23 elements. Torrey Botanical Club 89(5): 293-302.

Hansch, C., 1951. Further evidence for a chemical reaction between plant growth-regulators and a plant substrate. Plant Physiology 26: 812-821.

Hansch, C., The ortho effect in plant growth-regulators. Plant Physiology 25: 389-393.

Hansen, C.J., 1951. Influence of various treatments given to Walnut grafts on the percentage of scions growing. American Society for Horticultural Science 57: 193-197.

Harada, H., 1966. Retardation of the senescence of Rumen obtusifolius L. leaves by growth retardants. Plant and Cell Physiology 7: 701-703.

Harper, D.B., 1969. Studies on plant growth-regulating substances XXX. The plant growth-regulating activity of substituted phenols. Annals of Applied Biology 64: 395-407.

Harris, G.K., 1970. Methyl 2-Chloro-9-Hydroxyfluorene-9-Carboxylate; results of field tests. North East Weed Science Society Supplement 24: 217-222.

Harris, R.W., 1970. The control of trunk sprouts on landscape trees. Proc. International Shade Tree Conference 46: 57-63.

Hatcher, E.S.J., 1959. Auxin relations of the woody shoot; the distribution of diffusible auxin in shoots of Apple and Plum rootstock varieties. Annals of Botany, N.S., 23(91): 409-423.

Heacock, R.A., 1958. Studies on plant growth-regulating substances, XII. Polycyclic acids. Annals of Applied Biology 46(3): 352-365.

Heald, F.D., 1943. Parasitic diseases. Plant Pathology. McGraw-Hill Book Co. page 290.

Heath, O.V.S., 1956. Chelating agents as plant growth substances, a possible clue to the mode of action of auxin. Nature 177: 1118-1121.

Heinicke, D.R., 1963. The micro-climate of fruit trees. II. Foliage and light distribution patterns in Apple trees. American Society for Horticultural Science 83: 1-11.

Hemberg, T., 1949. Growth-inhibiting substances in terminal buds of Fraxinus. Physiologia Plantarum 2: 37-44.

Hemberg, T., 1958. The occurrence of acid inhibitors in resting terminal buds of Fraxinus. Physiologia Plantarum 11: 610-614.

Hendershott, C.H., 1962. The influence of Maleic Hydrazide on Citrus trees and fruits. American Society for Horticultural Science 80: 241-246.

Herring, H.G., 1958. Wound area as influenced by closeness of pruning. Journal of Forestry 56: 219-220.

Hillman, J., 1970. The hormonal regulation of bud outgrowth in Phaseolus vulgaris L., Planta 90: 222-229.

Hirt, R.R., 1961. Decay in trees. Proc. National Shade Tree Conference 37: 20-28.

Hitchcock, A.E., 1935. Absorption and movement of synthetic growth substances from soil as indicated by the responses of aerial parts. Contributions from Boyce Thompson Institute 7: 447-476.

Hitchcock, A.E., 1950-1952. A quantitative method of measuring responses of plants to growth regulators. Contributions from Boyce Thompson Institute 16: 225-248.

Hoad, G.V., 1969. Plant growth regulators. S.C.I. Monograph No. 31, (Book review) Experimental Agriculture 5: page 343.

Holleman, J., 1967. Direct incorporation of Hydroxyproline into protein of Sycamore cells incubated at growth-inhibitory levels of Hydroxyproline. Botany 57: 50-54.

Hollis, C.A., 1971. Auxin transport within dormant and active White Ash shoots. Plant Physiology 48: 146-149.

Holubowicz, T., 1970. Correlation between hardiness and free Amino Acid contents of Apple seedlings treated with Gibberellic Acid and Abscisic Acid. American Society for Horticultural Science 95(1): 85-88.

Horsfall, F., Jr., 1962. The effect of spray additives and simulated rain water on foliage curvature and thinning of Apples by the Sodium Salt of Naphthaleneacetic acid. American Society for Horticultural Science 80: 14-32.

Horsfall, F., Jr., 1961. New chemical potentiates and weather as adjuvants to Apple thinning by the Sodium Salt of Naphthaleneacetic acid. American Society for Horticultural Science 77: 9-21.

Huffman, C.W., 1967. Inhibition of plant growth by Halogenated benzoic acids. J. Agricultural Food Chemistry 15(6): 976-981.

Humphrey, W.A., 1969. Controlling fruit formation on ornamentals. Grounds Maintenance.

ADDITIONS

Irving, R.M., 1967. Dehardening and the dormant condition in Acer and Viburnum. American Society for Horticultural Science 91: 699-705.

Irving, R.M., 1967. Environmental control of cold hardiness in woody plants. Plant Physiology 42: 1191-1196.

Irving, R.M., 1969. Influence of growth retardants on development and loss of hardiness of Acer negundo. American Society for Horticultural Science 94: 419-422.

Ivanov, A.G., 1969. On the translocation of Chlorophyll in plants. Soviet Plant Physiology 16: 114-115.

ADDITIONS

Jackson, M.B., 1970. Ethylene; the natural regulator of leaf abscission. Nature 225: 1019-1022.

James, C.S., 1968. Studies on plant growth-regulating substances. XXVI. Isatic and anthranilic acids. Ann. Applied Biology 61: 295-302.

James, C.S., 1969. Studies on plant growth-regulating substances XXVIII. Halogen-substituted benzoic acids. Ann. Applied Biology 63: 205-210.

Jarvis, P.G., 1964. Growth rates of woody plants. Physiologia Plantarum 17: 654-666.

Jeffers, W.A., 1971. Preliminary evaluation of experimental chemicals for retarding the growth of woody plants. Proc. North East Weed Science Society 25:

Jeffers, W.A., 1965. Preliminary report on MH-30T tree demonstration program set up by United States Rubber Company. The Davey Bulletin, August, pages 1-2.

Jeffers, W.A., 1967. Evaluation of Davey's 1966 MH-30T applications. The Davey Bulletin, February, pages 1-3.

Jeffers, W.A., 1964. Review of 1964 tests with MH-30T for retarding the growth on Silver Maples. Davey Bulletin, November, pages 7-10.

Jeffers, W.A., 1966. Review of some of the test areas in the United States Rubber Company's MH-30T tree demonstration program. Davey Bulletin, February, pages 1-3.

Johns, H.R., 1966. Line clearing manual for overhead conductors. Proc. International Shade Tree Conference 42: 181-182.

Johns, H.R., 1970. Tree inhibition - fact or fiction. Transmission and Distribution, January, pages 56-57.

Johns, H.R., 1958. Problems of inhibiting tree growth chemically. Proc. of the National Shade Tree Conference 34: 144-153.

Johns, H.R., 1959. Tree growth retardants. Proc. National Shade Tree Conference 35: 1-7.

Jonas, H., 1969. Application of some growth regulators to medicinal plants. Economic Botany 23: 380-384.

Jukkala, A.H., 1969. Retardant sprayer efficient in mixing and application. Canadian Forest Industries, July, pages 27-30.

Juniper, B.E., 1960. Growth, development and effect of the environment on the ultra-structure of plant surfaces. Journal of the Linnean Society of London, Botany 56(367): 413-419.

ADDITIONS

Kacperska-Palacz, A., 1969. The effect of growth retardants CCC and B-9 on certain factors related to cold acclimation of plants. Botanical Gazette 130(3): 213-221.

Kaldewey, H., 1969. The Avena geo-curvature test; a quick and simple bioassay for auxins. Planta 84: 1-10.

Katz, M., 1967. Metabolic turnover in cell wall constituents of Avena sativa L. coleoptile sections. Biochimica et Biophysica Acta 141: 118-125.

Kaufman, J., 1961. Tests of growth regulators to retard yellowing and abscission of Cauliflower. American Society for Horticultural Science 78: 349-352.

Kawase, M., 1966. Growth-inhibiting substance and bud dormancy in woody plants. American Society for Horticultural Science 89: 752-757.

Kawase, M., 1961. Growth substances related to dormancy in Betula. American Society for Horticultural Science 78: 532-544.

Kazmaier, H.E., 1967. Summary of 1966 field experiments. Bulletin Edison Electric Institute : 1-14.

Kazmaier, H.E., 1967. Information and performance data on the Ethyl Ester of α-Naphthaleneacetic acid (EtNAA). Battelle Memorial Institute. Personal communication

Kefeli, V.I., 1971. Natural growth inhibitors. Their chemical and physiological properties. Annual Review of Plant Physiology 22: 185-260.

Kefeli, V.I., 1968. Investigation of natural auxins and growth inhibitors. Soviet Plant Physiology 151: 479-486.

Kefeli, V.I., 1970. Possibilities and limitations of a method for assay of natural auxins and growth inhibitors in plants. Soviet Plant Physiology 17(3): 521-527.

Kefeli, V.I., 1965. Natural growth substances of Willow leaves and buds. Plant Physiology, pages 86-88 translated from Doklady Akademii Maub SSSR 162(2): 462-464.

Kefford, N.P., 1966. A potent auxin with unique chemical structure - 4-Amino-3, 5, 6-Trichloropicolinic acid. Botanical Gazette 127(203): 195-163.

Kemmerer, H., 1965. Effect of Gibberellic acid on growth of woody ground cover plants. American Society for Horticultural Science 88: 698-702.

Kenney, G., 1969. The uptake of growth substances, XIII, differential uptake of indol-3YL-acetic acid through the epidermal and cut surfaces of etiolated stem segments. Experimental Botany 20(65): 820-840.

Key, J.L., 1969. Hormones and nucleic acid metabolism. Plant Physiology 20: 449-474.

Khan, A.A., 1967. Physiology of morphactins: effect on gravi- and photo-response. Physiologia Plantarum 20: 306-313.

Khan, A.A., 1966. Acceleration of Cotton petiole abscission by Cycocel. Botanical Gazette 127(4): 217-221.

Kilby, M.W., 1970. The absorption and translocation of C^{14} labelled N-dimethylamino Succinamic acid by young Tung seedlings, Aleurites fordii (Hemsl.) American Society for Horticultural Science 95(2): 170-173.

Kirb, S., 1968. Plant growth control. Nature 219: page 1388.

Klyuchnikov, L.Y., 1969. Physiological reactions of conifers to treatment with 2, 4-D in young mixed forests. Soviet Plant Physiology 16(1): 366-368.

Knight, J.E. Tree growth retardants. Detroit Edison Company. Unpublished data, pages 1-4.

Knight, B.E.A., 1969. Studies on plant growth-regulating substances XXIX. The plant growth-retarding properties of certain Ammonium, Phosphonium and Sulphonium halides. Ann. Appl. Biol. 63: 211-223.

Knott, J.E., 1950. The use of Maleic Hydrazide for controlling the growth of a Pyracantha hedge. American Society for Horticultural Science 55: 504-506.

Kozel, P.C., 1969. Chemical pruning shows promise. Weeds, Trees and Turf, July: pages 12-13.

Kozel, P.C., 1970. The effect of morphactin on the regrowth of Acer saccharinum. Department of Horticulture, Ohio State University, pages 1-2.

Kozel, P.C., 1970. Chemical control of tree growth. Ohio Report, pages 104-105.

Kozel, P.C., 1969. Morphactin - a new plant growth regulator. Ohio A.R.D.C., pages 1-8.

Kozlowski, T.T., 1970. Effect of Decenylsuccinic acid on needle moisture content and shoot growth of Pinus resinosa. Canadian Journal of Plant Science 50(3): 355-356.

Kozlowski, T.T., 1968. Water balance in shade trees. Proc. International Shade Tree Conference 44: 29-42.

Kraus, E.J., 1954. The significance of growth regulators in agricultural practice. American Society for Horticultural Science 63: 529-546.

Krishchenko, U.P., 1969. Physiological and biochemical effects of growth retardants on plants. (World Literature Review) Agrokhimiya 5: 148-155.

Kuperman, I.A., 1968. Simple device for determining water absorption by plants. Soviet Plant Physiology 15(1): 322-323.

Kuraishi, S., 1962. Mode of action of growth retarding chemicals. Plant Physiology 37: 19-24.

ADDITIONS

Lagerstedt, H.B., 1971. Tree trunk spray boom. HortScience 6(5) page 455.

Laing, C.G., 1966. Structure, formation and dormancy of terminal buds of Elm. Botanical Gazette 127(2-3): 127-132.

Lane, F.E., 1964. Isolation and characterization studies on the β - inhibitor in dormant buds of the Silver Maple (Acer saccharinum L.) Physiologia Plantarum 17: 91-99.

Lang, A., 1970. Gibberellins: structure and metabolism. Annual Review of Plant Physiology 21: 537-570.

Lanphear, F.O., 1960. The effect of various photoperiods on rooting and subsequent growth of selected woody ornamental plants. American Society for Horticultural Science 77: 620-634.

Larsen, P., 1954. Nomenclature of chemical plant regulators - a criticism. Plant Physiology 29: 400-401.

Larsen, F.E., 1970. Promotion of leaf abscission of deciduous nursery stock with (2-Chloroethyl) phosphonic acid. American Society for Horticultural Science 95(1): 662-663.

Larson, P.R., 1963. Stem form development of forest trees. Forest Science Monograph 5: 31-42.

Lavee, S., 1967. The effect of time of application of two growth substances on the thinning of Olive fruit. American Society for Horticultural Science 91: 180-186.

LeFevre, C.W., 1960. Concentration of a growth inhibitor from (Agropyron repens) Quackgrass. Proc. North Eastern Weed Control Conference 14: 353-356 and 519.

Lenton, J.R., 1968. Detection of Abscisic acid in the Xylem sap of Willow (Salix viminalis L.) by gas - liquid chromatography. Nature 220: 86-87.

Leopold, A.C., 1972. Ethylene in the wood of stressed trees. HortScience 7(2): page 175.

Lepp, N.W., 1970. Some effects of IAA and Kinetin upon the movement of sugars in the Phloem of Willow. Planta 90: 230-235.

Levine, M., 1936. The response of plants to localized applications of various chemical agents. Torrey Bot. Club 63: 177-194.

Link, G.K.K., 1951. Inhibitory and stimulatory effects of Indoleacetic acid on development of the Bean hypocotyl. Botanical Gazette 112: 400-417.

Linnard, W., 1964-1966. The effect of growth regulators in increasing the frost resistance of Eucalypt seedlings. Commonwealth Forestry Review 43-45: 217-219.

Little, C.H.A., 1968. Effect of Abscisic acid on budbreak and transpiration in woody species. Nature 220: 498-500.

Little, S., 1941. Calendar of seasonal aspects for New Jersey forest trees. Forest Leaves 31(4)

Longley, L.E., 1938. Effect of growth substances and maturity on rooting of cuttings of certain shrubs. American Society for Horticultural Science 36: 827-830.

Longley, L.E., 1939. Growth substance in rooting certain Prunus species. American Society for Horticultural Science 37: 1091-1092.

Longman, K.A., 1970. Initiation of flowering on first year cuttings of Metasequoia glyptostroboides. Nature 227: 299-300.

Lord, W.J., 1971. Effects of annual sprays of Succinic acid-2, 2 dimethylhydrazide on vegetative growth, fruiting, fruit quality and pre-harvest drop of 'Delicious' Apple trees. American Society for Horticultural Science 96(5): 687-690.

Luckwill, L.C., 1968. The effect of certain growth regulators on growth and apical dominance of young Apple trees. J. Hort. Sci., 43: 91-101.

Luckwill, L.C., 196. Gibberellins and other growth hormones in apple seeds. J. Hort. Sci., 44: 413-424.

Lyon, C.J., 1963. Auxin factor in branch epinasty. Plant Physiology 38: 145-152.

ADDITIONS

McGuire, J.J., 1965. The effect of different growth retardants on the growth and flowering of Rhododendron obtusum 'Hinodegiri'. American Society for Horticultural Science 86: 761-763.

McIlrath, W.J., 1961. Plant growth regulation. Economic Botany 15: page 380. (Review of the Proc. of the 4th International Conference on Plant Growth Regulation).

Meek, R.C., 1967. Chemicals slow tree growth; bring savings. Electrical World, August, pages 32-33.

Mendez, J., 1968. Growth substances isolated from woody cuttings of Alnus glutinosa (Medic) and Fraxinus excelsior L. Phytochemistry 7: 575-579.

Meserve, A.W., Pruning for prevention of storm damage. Proc. National Shade Tree Conference : 50-57.

Messer, G., 1969. Studies on vigour and dwarfism of Apple trees in an in vitro tissue culture system. Journal of Horticultural Science 44: 219-233.

Milbrath, J.A., 1940. Holly defoliation prevented by A-Naphthaleneacetic acid. Science 92 (2392): page 401.

Miller, E.V., 1965. Two types of growth inhibitors in extracts of Umbilicaria papulosa. Botanical Gazette 126(2): 100-107.

Miller, P.M., 1970. Growth regulation by Ethylene in Fern gametophytes. I. Effects on protonemal and rhizoidal growth and interaction with auxin. American Journal of Botany 57(2): 212-217.

Miller, C.O., 1960. Kinetin and related compounds in plant growth. Annual Review of Plant Physiology 11: 395-408.

Millington, W.F., 1963. Shoot tip abortion in Ulmus americana. American Journal of Botany 50: 371-378.

Minarik, C.E., 1951. New growth-regulating compounds II. Substituted benzoic acids. Botanical Gazette 113: 135-147.

Magness, J.R., 1941. Water relations to plant growth. Proc. National Shade Tree Conference 17: 35-45.

Mahmood, A., 1968. Cell grouping and primary wall generations in the Cambial zone, Xylem, and Phloem in Pinus. Australian Journal of Botany 16: 177-195.

Maini, J.S., 1966. Vegetative propagation of Populus Spp. I. Influence of temperature on formation and initial growth of Aspen suckers. Canadian Journal of Botany 44: 1183-1189.

Maini, J.S., 1966. Apical growth of Populus Spp. II. Relative growth potential of apical and lateral buds. Canadian Journal of Botany 44: 1581-5190.

Maire, R.G., 1967. Chemical growth retardants for bedding plants. Californian Agriculture, August, page 14.

Manorik, A.V., 1969. Method of studying root exudates and of calculating their amounts. Soviet Plant Physiology 16(2): 297-302. Translated from Fiziologiya Rastenii 16(2):358-364.

Maravolo, N.C., 1966. Morphogenic effects of three growth substances on Marchantia gemmalings. Botanical Gazette 127(2-3): 79-86.

Marth, P.C., 1963. Effect of growth retardants on flowering, fruiting and vegetative growth of Holly (Ilex). American Society for Horticultural Science 83: 777-781.

Marth, P.C., 1941. Responses of Coniferous evergreens to fertilizer applications. American Society for Horticultural Science 38: 709-714.

Martin, G.C., 1967. Endogenous growth regulating factors in bark of EM IX and XVI Apple trees. American Society for Horticultural Science 91: 31-38.

McConnell, D.B., 1969. Effect of Alar on the developing root-hypocotyl axis of Zinnia elegans. Botanical Gazette 130(2): 97-101.

Mitchell, J.W., 1970. Brassins - a family of plant hormones from Rape pollen. Nature 225: 1065-1066.

Mitchell, J.W., 1962. Chemicals and plant growth after 100 years. U.S. Yearbook of Agriculture, pages 137-146. U.S. Supt. Documents.

Mitchell, J.W., 1939. Comparison of growth responses induced in plants by Naphthalene-acetamide and Naphthaleneacetic acid. Botanical Gazette 101: 410-427.

Mitchell, J.W., 1961. Fundamental developements in the field of plant growth regulators. Bulletin of the Torrey Botanical Club 88(5): 299-312.

Mitchell, J.W., 1969. Plant growth regulating properties of some Acetone condensation products. Nature 223: 1386-3187.

Mitchell, J.W., 1944. Polyethylene glycols as carriers for growth-regulating substances. Botanical Gazette 105: 474-483.

Mitchell, J.W., 1950-1951. Some methods used in tracing radioactive growth-regulating substances in plants. Botanical Gazette 112: 126-129.

Mockeridge, F.A., 1927. The auximone theory. Botanical Gazette 83: 314-317.

Monk, C., 1966. Ecological importance of root/shoot ratios. Bull. Torrey Botanical Club 93(6): 402-406.

Monk, C.D., 1967. The root/shoot weight relationship of four widely separated seedling populations of Red Maple. Bull. Torrey Botanical Club 94: 197-199.

Moore, C.S., 1968. The cause of variation in fruit tree experiments. Journal of Horticultural Science 43: 121-131.

Moore, A.M., 1953. Growth inhibition studies. I. Measurement of the effects of inhibitors on the growth rate of Flax seedlings. Journal of Experimental Botany 4(10): 23-31.

Morgan, S.F., 1970. Development of dormancy during seed maturation in winter Wild Oat (Avena ludoviciana). Nature 228: page 1225.

Morsink, W.A., 1971. Size of softwood stem cuttings as factors in rooting Sugar Maple (Acer saccharum Marsh) under mist. HortScience 6(6):page 548.

Muir, R.M., 1951. The relationship of structure and plant-growth activity of substituted Benzoic and Phenoxyacetic acids. Plant Physiology 26: 369-374.

Muir, R.M., 1955. Chemical constitution as related to growth regulator action. Plant Physiology 30: 157-176.

Muir, R.M., 1970. Gibberellin and auxin relationships in abscission. American Journal of Botany 57(3): 288-291.

Muir, R.M., 1949. Growth regulation by organic compounds. Plant Physiology 24: 359-365.

Muir, R.M., 1953. On the mechanism of action of growth regulators. Plant Physiology 28: 218-232.

Muller, C.H., 1965. Inhibitory Terpenes volatilized from Salvia shrubs. Bull. Torrey Botanical Club 92(1): 38-45.

Mullison, W.R., 1951. The Tomato as a test plant for growth-regulators. Botanical Gazette 112: 521-

ADDITIONS

ADDITIONS

Nash, R.J., 1968. Studies on plant growth-regulating substances, XXVII. The growth-regulating activity and metabolism of 2, 4-Dichlorophenoxyethylamine and related compounds in higher plants. Annals of Applied Biology 61: 481-494.

Naylor, A.W., 1950. Maleic Hydrazide as a plant growth inhibitor. Botanical Gazette 112: 112-126.

Neel, P.L., 1971. Motion-induced inhibition of elongation and induction of dormancy in Liquidambar. Science 173: 58-59.

Nekrasova, T.V., 1969. Effect of retardant CCC on growth and morphogenesis of fruit tree saplings. Soviet Plant Physiology 16: 238-244.

Nekrasova, T.V., Effect of retardant CCC on growth and morphogenesis of fruit tree saplings. Translated from Fiziologiya Rastenii 16(2): 293-302.

Nethery, A.A., 1970. NIA 10637 and NIA 10656 as chemical growth retardants for woody species. Proc. International Shade Tree Conference 46: 20-24.

Nicol, H., 1941. Plant growth substances. Journal of the American Society of Agronomy 33: page 1046.

Ninnemann, 1964. The plant growth retardant CCC as inhibitor of Gibberellin biosynthesis in Fusarium moniliforme. Planta 61: 229-235.

Nilsson-Tillgren, T., 1970. When is the male plastome eliminated. Nature 227: 1265-1266.

Nissl, D., 1969. Evidence against induction of protein synthesis during auxin-induced initial elongation of Avena coleoptiles. Planta (Berl.) 89: 323-341.

Nitsch, J.P., 1958. Growth responses of woody plants to photoperiod stimuli. American Society for Horticultural Science 70: 512-525.

Nitsch, J.P., 1957. Photoperiodism in woody plants. American Society for Horticultural Science 70: 526-544.

Nooden, L.D., 1969. The mode of action of Maleic Hydrazide; inhibition of growth. Physiologia Plantarum 22: 260-270.

Norman, A.G., 1945-1946. Studies on plant growth-regulating substances. Botanical Gazette 107: page 475.

ADDITIONS

Olmsted, C.E., 1951. Experiments on photoperiodism, dormancy and leaf age and abscission in Sugar Maple. Botanical Gazette 112: 365-393.

Osborne, D.J., 1951. Plant growth-regulating activity in certain Aryloxyalkylcarboxylic acids. Science 114: 92-93.

Oserkowsky, J., 1942. Polar and apolar transport of auxin in woody stems. American Journal of Botany 29: 858-866.

ADDITIONS

Paleg, L.G., 1970. Differential inhibition of rat liver cholesterol biosynthesis by plant growth retardants. Nature 225: 1252-1253.

Paleg, L.G., 1970. Field control of plant growth and development through the laser activation of phytochrome. Nature 228:970-973.

Paleg, L.G., 1952. Surface activity as related to physiological activity of plant growth-regulators. Plant Physiology 27: 285-292.

Pallas, J.E., 1970. Explanation for the stomatal response of excised leaves to kinetin. Nature 227: 87-88.

Parsons, R.F., 1967. Effect of age on root/shoot ratios in some herbaceous and woody plants - an appraisal. Torrey Botanical Club 94(6): 498-500.

Pellett, N.W., 1969. Rates and recommendations for growth regulators on floral crops, Ground Maintenance. March, pages 87-92.

Perry, T.O., 1971. Dormancy of trees in winter. Science 171: 29-36.

Peterson, E.B., 1965. Inhibition of Black Spruce primary roots by a water-soluble substance in Kalmia angustifolia. Forest Science 11(4): 473-479.

Pharis, R.P., 1967. Response of conifers to growth retardants. Botanical Gazette 128(2): 105-109.

Phillips, I.D.J., 1958. Studies in dormancy of Sycamore I. Seasonal changes in the growth-substance content of the shoot. Journal of Experimental Botany 9(27): 350-364.

Phillips, I.D.J., 1959. Studies in dormancy of Sycamore II. The effect of daylength on the natural growth-inhibitor content of the shoot. Journal of Experimental Botany 10(30): 504-514.

Phillips, J.C., 1968. Tree spray and growth control. Proc. International Shade Tree Conference, Western Chapter. 35: 267-268.

Phipps, R.L., 1970. The potential use of tree rings in hydrologic investigations in Eastern North America with some botanical considerations. Water Resources Research 6(6): 1634-1640.

Pierik, R.L.M., 1969. Factors affecting adventitious root formation in isolated stem segments of Rhododendron. Netherlands Journal of Agricultural Science 17: 203-208.

Pieringer, A.P., 1970. Growth retardation of citrus by Quaternary Ammonium derivatives of (+)-Limonene. American Society of Horticultural Science 95(1): 53-55.

Pirone, P.P., 1951. Foliage application of nutrients. Proc. National Shade Tree Conference 27: 23-36.

Plummer, T.H., 1957. Chemical treatment for bud formation in Saintpaulia. American Society for Horticultural Science 70: 442-444.

Poskuta, G., 1967. Effects of metabolic inhibitors on the rates of CO_2 evolution in light and in darkness by detached Spruce twigs, Wheat and Soybean leaves. Plant Physiology 42: 1187-1190.

Powell, L.E., 1960. Separation of plant growth regulating substances on Silica Gel columns. Plant Physiology 35: 256-261.

Prasad, A., 1970. Response of Mango to plant growth regulators. Tropical Agriculturist, Agricultural Journal of Ceylon 126(2): 95-106.

Pratt, R., 1952. Growth regulating properties of some Thiosemicarbazones. Brief papers in Plant Physiology 27: 622-625.

Purohit, A.N., 1969. Effect of some growth substances and antimetabolites on elongation of the first internode in epiphyllous buds of Bryophyllum tubiflorum (Harv.) Botanical Gazette 130 (2): 102-106.

Pybus, M.B., 1959. Studies on plant growth-regulating substances XIII. Chloro- and Methyl-substituted Phenoxyacetic and Benzoic acids. Annals of Applied Biology 47(1): 173-181.

Pybus, M.B., 1959. Studies on plant growth-regulating substances XIV. Chloro-substituted Phenylacetic acids. Annals of Applied Biology 47(3): 593-600.

ADDITIONS

Raese, J.T., 1970. Growth regulation of Tung trees Aleurites fordii (Hemsl.) with Potassium Gibberellate and N-Dimethylaminosuccinamic acid. American Society for Horticultural Science 95(1): 56-58.

Rakitin, Yu.V., 1968. Detoxification of 2,4-D in plants depending upon the peculiarities of its application. Soviet Plant Physiology 15: 417-422.

Rakitina, Z.G., 1968. Effect of aeration on frost resistance of woody plant shoots. Soviet Plant Physiology 15: 199-206.

Rakitina, Z.G., 1970. Effect of aeration on frost resistance of root systems in woody plants. Soviet Plant Physiology 17(4): 676-684.

Rameshwar, A., 1970. Cytokinin-like activity of 8-Quinolinol sulphate. Nature 288: 1224-1225.

Ratcliff, R.C., 1966. Progress in tree growth inhibitor research. Proc. International Shade Tree Conference 42: 202-203.

Read, P.E., 1970. Use of growth retardants for increasing Tomato yields and adaptation for mechanical harvest. American Society for Horticultural Science 95(1): 73-78.

Redemann, C.T., 1950. Precautions in the use of Lanolin as an assay diluent for plant growth substances. Plant Physiology 25: 356-358.

Reid, C.P.P., 1970. Root exudation of herbicides by woody plants; Allelopathic implications. Nature 225: page 291.

Reid, M.S., 1970. Ethylene and the respiration climacteric. Nature 226 : 976-977.

Ridge, I., 1969. Cell growth and cellulases: regulation by Ethylene and Indole-3-acetic acid in shoots of Pisum sativum. Nature 223: 318-319.

Romberger, J.A., 1963. Meristems, growth and development in woody plants. U.S.D.A. Tech. Bull. 1293.

Romberger, J.A., 1969. Apical meristems of trees - why we study them. Agricultural Science Review 7(2): 1-10.

Romberger, J.A., 1966. Developmental biology and the Spruce tree. Journal of the Washington Academy of Sciences 56: 69-81.

Rosinski, M.A., 1968. Hybridization of Panus tigrinus and Lentodium squamulosum. American Journal of Botany 55(2): 242-246.

Rossman, W.R., 1970. Report on results of use of growth inhibitor tree paint in Penelec line clearance tree trimming. Personal communication pages 1-2.

Rothwell, K., 1963. Studies on plant growth-regulating substances XVII. S-esters of dithiocarbamates derived from amino acids. Annals of Applied Biology 51: 161-167.

Row, V.V., 1959-1960. Growth regulants in Maple bark and flowers. Contributions from Boyce Thompson Institute 20: 381-383.

Rubinstein, B., 1965. Relationship between Ethylene evolution and leaf abscission. Botanical Gazette 126(4): 255-259.

Ruddat, M., 1965. Chemical evidence for the mode of action of AMO-1618, a plant growth retardant. Heft 10, (Jg. 52), Kurze Originalmitteilungen, page 267.

ADDITIONS

Sachs, R.M., 1966. Chemical control of growth and flowering of woody ornamental plants in the landscape and nursery; tests with Maleic Hydrazide and Alar. American Society for Horticultural Science 91: 728-734.

Sachs, R.M., 1970. Chemical control of plant growth in landscapes. Division of Agricultural Sciences, University of California Bulletin 844: 1-19.

Sachs, R.M., 1968. Gibberellin and auxin-induced berry enlargement in Vitis vinifera L. Journal of Horticultural Science 43: 185-195.

Sachs, R.M., 1969. Growth control in trees - anatomical and physiological aspects. Proc. International Shade Tree Conference 45: 60-78.

Sachs, R.M., 1964. Inhibition of cell proliferation and expansion in vitro by three stem growth retardants. American Journal of Botany 51(1): 44-48.

Sachs, T., 1967. The role of Auxins and Cytokinins in the release of buds from dominance. American Journal of Botany 54(1): 136-144.

Salisbury, F.B., 1957. Growth regulators and flowering. I. Survey methods. Plant Physiology 32: 600-608.

Sastry, K.S.K., 1965. Transport of Indoleacetic acid in pedicels of Tomato and its relation to fruit growth. Botanical Gazette 126(1): 13-19.

Savelena, L.S., 1968. Solution movement in natural root grafts of Ash. Soviet Plant Physiology 15(4): 599-601.

Schneider, G., 1965. Morphactins; a novel group of plant-growth regulators. Nature 208 (5014): page 1013.

Schneider, G., 1970. Morphactins physiology and performance. Annual Review of Plant Physiology 21: 499-536.

Schoeneweiss, D.F., 1963. Methods for breaking dormancy of Oak seedlings in the greenhouse. American Society for Horticultural Science 83: 819-824.

Schonherr, J., 1971. Translocation of Succinic acid 2, 2 dimethyl-hydrazide in Apple and Peach trees following foliar application. American Society for Horticultural Science 96(5): 592-596.

Schrader, A.L., 1931. Light intensity as a factor in the development of Apple colour and size. American Society for Horticultural Science 28: 552-555.

Sciaroni, R.H., 1962. Recent chemical developments of use to the arborists. Proc. International Shade Tree Conference 38: 82-83.

Scott, N.J., 1967. The need for, and operation of a consulting service in arboriculture. Proc. International Shade Tree Conference 43: 52-66.

Scott, P.C., 1970. Separation of effects of Auxin and Ethylene in Pea roots. Nature 227: 1366-1367.

Scott-Pearse, F., Growth regulators. Unpublished paper pages 1-4.

Selders, A.A., 1968. Autoradiograph of Pine trunk cross section. Journal of Forestry 66(2): 137.

Semeniuk, P., 1970. Effects of growth retardants on growth of Geranium seedlings and flowering. American Society for Horticultural Science 5(5): 393-394.

Sequeira, L., 1968. Vernolepin: a new, reversible plant growth inhibitor. Science 161: 789-790.

Shah, J.J., 1969. The shoot apex and the ontogeny of axillary buds in Cuminum cyminum L. Australian Journal of Botany 17: 241-253.

Shanks, J.B., 1970. Chemical growth regulation for floricultural crops. The Maryland Florist 164: 1-8.

Shantz, E.M., 1959. The chemical regulation of growth.(Some substances and extracts which induce growth and morphogenesis). Annual Review of Plant Physiology 10: 379-404.

Shindy, W.W., 1970. Export of photosynthate affected when leaves are pretreated with growth substances. Nature 227: 301-302.

Singh, A.P., 1967. Effect of foliar sprays of plant regulators. (IAA and GS) on the growth and yield of knol khol Brassica oleracea L. (var. gongylodes)Tropical Agriculturist, Agricultural Journal of Ceylon 123(3 & 4): 99-110.

Skoog, F., 1970. Cytokinins. Plant Physiology 21: 359-384.

Smith, H., 1964. The chemical regulation of the dormancy phases of bud development. American Journal of Botany 51(9): 1002-1012.

Smith, R.C., 1968. A simple technique for measuring minute volumes of plant root exudates. Bulletin of the Torrey Botanical Club 95(4): 379-386.

Smith, V.K., 1966. Tree growth inhibitors. Engineering and Operation Section, Southeastern Electric Exchange : 1-22.

Steffens, G.L., 1969. Selection of fatty acid derivatives; surfactant formulation for the control of plant meristems. Agricultural and Food Chemistry 17(2): 312-317.

Stewart, W.S., 1939. A plant growth inhibitor and plant growth inhibition. Botanical Gazette 101: 91-108.

Stout, B.B., 1967. Root systems of deciduous trees. Proc. International Shade Tree Conference 43: 30-39.

Stoutemyer, V.T., 1969. Growth and habituation in tissue cultures of English Ivy, Hedera helix. American Journal of Botany 56(2): 222-226.

Stoutemyer, V.T., 1943. The influence of substituted groups in some plant growth substances on rooting responses of cuttings. American Society for Horticultural Science 42: 365-368.

Stoutemyer, V.T., 1938. Talc as a carrier of substances inducing root formation in softwood cuttings. American Society for Horticultural Science 36: 817-822.

Stoutemyer, V.T., 1944. Influence of changes in molecular configurations of several naphthyl growth substances on the rooting responses of cuttings. American Society for Horticultural Science 44: 529-532.

Stowe, B.B., 1966. Further studies of some plant indoles and auxins by paper chromatography. Brief papers in Plant Physiology 41: 162-165.

Stuart, N.W., 1960. Applied aspects of the Gibberellins. Annual Review of Plant Physiology 11: 369-394.

Stuart, N.W., 1961. Initiation of flower buds in Rhododendron after application of growth retardants. Science 134: 50-52.

Studhalter, R.A., 1955. Tree growth I. Some historical chapters. Botanical Review 21(1-3): 1-25.

Sutton, R.F., 1969. Chemical control of competition in plantations. The Forestry Chronicle 45(4): 252-256.

Sutton, R.F., 1970. Chemical herbicides and forestation. Forestry Chronicle 46(6): 458-465.

Swanson, C.A., 1953. Studies on the translation of foliar-applied P and other radioisotopes in Bean plants. American Journal of Botany 40: 816-823.

Swartley, J.C., 1941. Effects of synthetic growth substances on transplants. American Society for Horticultural Science 39: 357-360.

Swartley, J.C., 1939. Synthetic growth substances as aids to root production on evergreen and softwood deciduous cuttings. American Society for Horticultural Science 37: 1099-1104.

ADDITIONS

Taylor, H.F., 1970. Xanthoxin; a new naturally occurring plant growth inhibitor. Nature 227: 302-304.

Taylor, R.W., 1970. Off-Shoot-O - Chemical pinching agent for ornamentals. Publication of Proctor and Gamble.

Taylorson, R.B., 1960. The influence of Maleic Hydrazide on endogenous auxin systems of dormant and active buds of Rosa rugosa. American Society for Horticultural Science 77: 587-593.

Templeman, W.G., 1940. The effect upon the growth of plants of watering with solutions of plant-growth substances and of seed dressings containing these materials. Annals of Applied Biology 27: 453-471.

Templeman, W.G., 1955. The uses of plant growth substances. Annals of Applied Biology 42: 162-173.

Tepper, H.B., 1967. Mitotic reactivation of the terminal bud and Cambium of White Ash. Science 156: 1635-1636.

Teskey, B.J.E., 1963. A guide to chemical thinning of tree fruits. Ontario Department of Agriculture Bulletin 368: 1-8.

Thimann, K.V., 1938. Hormones and the analysis of growth. Plant Physiology 13(3): 437-449.

Thomson, B.F., Tissue responses to physiologically active substances. The Botanical Review 11: 593-610.

Thompson, F.B., 1971. Method for measuring the leaf surface of complex shoots. Nature 229: page 572.

Thompson, H.E., 1946. New growth-regulating compounds, I. Summary of growth-inhibitory activities of some organic compounds as determined by three tests. The Botanical Gazette 107: 476-507.

Ticknor, R.L., 1957. Evidence for the entry of mineral nutrients through the bark of fruit trees. American Society for Horticultural Science 69: 13-16.

Tilford, P.E., 1938. Effect of some synthetic growth substances on root development of transplanted trees. Proc. National Shade Tree Conference 14: 51-59.

Ting-Yun Chin, 1970. Changes in endogenous growth regulators in Nasturtium leaves during senescence. Planta 92: 178-188.

Tognoni, F., 1967. The independent action of Morphactins and Gibberellic acid on higher plants. Plant and Cell Physiology 8: 231-239.

Tolbert, N.E., 1961. Alteration of plant growth by chemicals. Bulletin of the Torrey Botanical Club 88(5): 313-320.

Treharne, K.J., 1970. Effect of Gibberellin and Cytokinins on the activity of photosynthetic enzymes and Plastid Ribosomal RNA synthesis in Phaseolus vulgaris L. Nature 228: 129-131.

Truelsen, T.A., 1961. Growth-promoting and growth-inhibiting effects of high Indol-3-acetic acid concentrations. Physiologia Plantarum 14: 520-532.

Tukey, H.B., 1966. Leaching of metabolites from above-ground plant parts and its implications. Bulletin of the Torrey Botanical Club 93(6): 385-401.

Tullin, V., 1962. Effects of injections of growth compounds on seedlings. Physiologia Plantarum 15: 315-340.

Turetskaya, R. Kh., 1969. Effect of natural and synthetic inhibitors on various forms of growth. Soviety Plant Physiology 16(4): 686-691.

Turetskaya, R. Kh., 1968. Translocation of auxins in plants. Usp. Sourem Biology 66: 102-120.

ADDITIONS

Ugochukwu, E.N., 1968. Studies on plant growth-regulating substances XXV. The plant growth-regulating activity of cinnamic acids. Annals of Applied Biology 61: 121-130.

Undurraga, M.J., 1970. The effect of Alar on permeability; a possible explanation for its mode of translocation. American Society for Horticultural Science 95(3): 348-354.

ADDITIONS

Valio, I.F.M., 1969. New natural growth inhibitor in the liverwort (Lunularia cruciata L.) Nature 223: 1176-1178.

Van Der Kerk, G.J.M., 1955. A new type of plant growth-regulating substance. Nature 176: 308-310.

Van Overbeek, J., 1939. Phototropism. Botanical Review 5: 655-681.

Van Overbeek, J., 1959. Auxins. Botanical Review 25(2): 270-350.

Van Overbeek, J., 1969. The control of plant growth. Scientific American : 75-81.

Van Steveninck, R.F.M., 1958. Factors affecting the abscission of reproductive organs in Yellow Lupins (Lupinus luteus L.) II. The effects of growth substances, defoliation, and removal of lateral growth. Journal of Experimental Botany 9(27): 372-383.

Villiers, T.A., 1960. Plant Physiology; interaction of growth inhibitor and a natural germination stimulator in the dormancy of Fraxinus excelsior L. Nature 185: 112-114.

Vite, J.P., 1959. The water-conducting systems in conifers and their importance to the distribution of trunk injected chemicals. Contribution from Boyce Thompson Institute 20: 27-38.

Vitou, H., 1959. Studies on plant growth-regulating substances, XV. The use of root-growth inhibition tests in investigations on the relationships between chemical structure and growth-regulating activity. Annals of Applied Biology 47(4): 752-765.

ADDITIONS

Wagner, J.F., 1969. West Penn Power Company's use of NAA tree growth inhibitors. Proc. North East Weed Control Conference 24: 1-8.

Wagner, J.F., 1968. Line clearance standards as a guideline for the public utility arborist. Proc. International Shade Tree Conference 44: 150-156.

Wain, R.L., 1949. Chemical aspects of plant growth-regulating activity. Annals of Applied Biology 36: 558-562.

Wain, R.L., 1960-61. Some development in research on plant diseases and weed control. Royal Agricultural Society of England 121-22: 117-124.

Wareing, P.F., 1951. Growth studies in woody species III. Further photoperiodic effects in Pinus silvestris. Physiologia Plantarum 4: 41-56.

Wareing, P.F., 1971. Hormones and dormancy. Annual Review of Plant Physiology 22: 261-288.

Wareing, P.F., 1966. Photoperiodism in woody plants. Annual Review of Plant Physiology 17: 191-214.

Wareing, P.F., Problems of juvenility and flowering in trees. Journ. Linn. Soc. - Botany LVI: 282-289.

Watson, D.P., 1962. Retardation in cell development in leaf and flower buds of Phaseolus vulgaris L. from foliar application of Maleic Hydrazide. Torrey Botanical Club 79(3): 235-241.

Weaver, R.J., 1969. Effect of Ethrel, Abscisic Acid and a Morphactin on flower and berry abscission and shoot growth in Vitis vinifera. American Society for Horticultural Science 94: 474-478.

Weaver, R.J., 1947. Reaction of certain plant growth-regulators with ion exchangers. The Botanical Gazette 109: 72-84.

Weeraratne, V., 1964. Effect of plant growth regulators on the infectivity of Tobacco Mosaic Virus. Canadian Journal of Botany 42: 885-889.

Weintraub, R.L., 1949. Plant growth - regulators. Economic Botany, III: 289-298.

Weiser, C.J., 1963. Rooting and night-lighting trials with deciduous Azaleas and Dwarf Rhododendrons. American Society for Horticultural Science 42(2): 95-100.

Wells, J.S., 1954. Evaluation of halogen-substituted Phenoxyacetic acids and other growth regulators in rooting Rhododendron and Ilex. American Society for Horticultural Science 63: 465-468.

Went, F.W., 1935. Auxin, the plant growth hormone. The Botanical Review, I: 162-182.

Went, F.W., 1936. Auxin, the plant growth hormone. The Botanical Review, II: 487-496.

Went, F.W., 1942. Growth, auxin and tropisms in decapitated Avena coleoptiles. Plant Physiology 17: 236-249.

Went, F.W., Some physiological factors in the aging of a tree. Proc. Western Shade Tree Conference 330-334.

Wilcox, H.E., 1968. Morphological studies of the root of Red Pine, Pinus resinosa I: Growth characteristics and patterns of branching. American Journal of Botany 55(2): 247-254.

Wilde, M.H., 1969. Some effects of a growth retardant on shoot meristems of Apple. American Society for Horticultural Science 94: 118-122.

Wildman, S.G., 1949. Observations on the mechanism of auxin formation in plant tissues. Plant Physiology 24: 84-92.

Wilkins, M.B., 1968. Auxin transport in roots. Nature 219: 1388-1389.

Williams, M.W., 1970. Increasing the number and crotch angles of primary branches of Apple trees with Cytokinins and Gibberellic acid. American Society for Horticultural Science 95(5): 659-651.

Wills, R.B.H., 1970. Ethylene, a plant hormone from fluorescent lighting. Nature 225: page 199.

Wilson, W.C., 1966. The effects of various chemical treatments on the rate of abscission of 'Hamlin' orange explants. American Society for Horticultural Science 90: 122-129.

Winklepleck, R.L., Lanolin emulsions as carriers of growth substances. American Society for Horticultural Science 94-96.

Withrow, R.B., 1944. New carriers for plant growth regulators. Purdue University Agr. Sta. Paper No. 204.

Wodzicki, T.J., 1968. On the question of occurrence of Indole-3-Acetic acid in Pinus silvestris. American Journal of Botany 55(5): 564-571.

Wodzicki, T., 1964. Photoperiodic control of natural growth substances and wood formation in Larch (Larix decidua D.C.) Journal of Experimental Botany 15(45): 584-599.

Wolfe, H.S., 1926. Brief articles - the auximone question. The Botanical Gazette, LXXXI: 228-231.

ADDITIONS

Yeatman, C.W., 1970. Technical notes: CO2 enriched air increased growth of conifer seedlings. Forestry Chronicle, June, 229-230.

Yeou-Der, K., 1967. Effect of low temperature and growth regulators on germination of seeds of 'Tokay' Grapes. American Society for Horticultural Science 92: 323-330.

Yerke, T.B., 1963. The Oxford system: a study of its uses at a forest experiment station. Journal of Forestry 61(4): 295-296.

Yih, R.Y., 1971. Plant growth regulating properties of 3-Carboxy-2-pyridones. Hort.Science:6(5) 460-461.

ADDITIONS

Zimmerman, P.W., 1939-1941. Adventitious shoots and roots induced by natural influences and synthetic growth substances. Contributions from Boyce Thompson Institute 11: 127-141.

Zimmerman, P.W., 1937-1938. Experiments with vapors and solutions of growth substances. Contributions from Boyce Thompson Institute 10: 481-508.

Zimmerman, P.W., 1939. Responses of plants to growth substances applied as solutions and as vapors. Contributions from Boyce Thompson Institute for Plant Research 10: 363-376.

Zimmerman, P.W., 1935. Several chemical growth substances which cause initiation of roots and other responses in plants. Contributions from Boyce Thompson Institute for Plant Research 7: 209-229.

Zimmerman, P.W., 1947. Torreya, plant hormones. Torrey Botanical Club 74(2): 180-187.

Zimmerman, P.W., 1943. The aerosol method of treating plants with growth substances. Contributions from Boyce Thompson Institute 13: 313-322.

Zimmermann, M.H., 1961. Movement of organic substances in trees; photosynthates are translocated in a layer of bark only a fraction of a millimeter thick. Science 133(3446): 73-79.

Zimmermann, M.H., 1957. Translocation of organic substances in trees, I. The nature of the sugars in the Sieve-tubes exudate of trees. Plant Physiology 32: 288-291.

Zimmermann, M.H., 1957. Translocation of organic substances in trees, II. On the translocation Mechanism in the Phloem of White Ash (Fraxinus americana L.) Plant Physiology 33: 399-404.

Zimmermann, M.H., 1958. Translocation of organic substances in trees, III. The removal of sugars from the Sieve tubes in the White Ash (Fraxinus americana L.). Plant Physiology 34: 213-217.

ADDITIONS

LITERATURE TITLES - WOUND HEALING

(WOODY PLANTS)

_____, 1935. Scientific aspects of handling tree cavities. Proc. National Shade Tree Conference 11: 51-55.

_____, 1943. Quick healing of tree wounds. Annual Report for 1943 Allegheny Forest Equipmental Stn., U.S. Forest Service.

_____, 1946. Wound dressing for Planetrees. State of N.J. Dept. of Agr. Circular No. 360.

_____, 1971. Final Report of the Edison Electric Institute - Tree Growth Control Project RP24: 1-126.

Armstrong, N., 1938. Basic principles of shade tree pruning. Proc. National Shade Tree Conference 14: 126-137.

Avery, G.S., 1938. La notion des phytohormones. Leur rapports avec les stimulants et l'irritabilité des plantes. Etudes et recherches sur les phytohormones. Inst. Int. Coop. Intell. Soc. Nations 49-54.

ADDITIONS

Ball, O.M., 1908. Formation of adventitious roots in the Umbrella China tree. Botanical Gazette XLVI: 303-304.

Banna, M.W., 1934. Seasonal wounding and resin-cyst production in the hemlock Tsuga canadensis L. Ann. Bot. 48: 857-868.

Barker, W.G., 1954. A contribution to the concept of wound repair in woody stems. Can. J. Bot. 32: 486-490.

Barker, W.G., 1952. An in vitro study of the proliferative capacity in the woody stele of Tilia americana L. Ph.D. Thesis. University of Michigan Amn Arbor.

Bartlett, F.A., 1935. Historical background of cavity work. Proc. National Shade Tree Conference 11: 39-51.

Basham, J.T., 1969. The ecological status of Coniochaeta velutina in Sugar Maple wounds. Can. J. of Bot. 47: 1629-1634.

Baxter, D.V., Pathology in forest practice. Diagnosing the presence of decay in standing trees. John Wiley & Sons, Inc., N.Y. 423-428.

Beal, J.M., 1938. Histological response of three species of Lilium to indoleacetic acid. Botanical Gazette 99: 881-911.

Blair, D.S., 1956. Observations in the growth phases of fruit trees. American Society for Horticultural Science : 75-79.

Blake, M.A., 1921. Some results of pruning investigations with Peaches. Proc. American Society for Horticultural Science 18: 213-222.

Blake, M.A., 1928. A standard for estimating twig growth of one year Peach trees. New Jersey Agr. Exp. Sta. Bul. 474.

Bloch, R., 1941. Wound healing in higher plants. Botanical Gazette VII: 110-146.

Bloch, R., 1952. Wound healing in higher plants II. Botanical Gazette XVIII (10): 655-679.

Bloch, R., 1937. Anatomical changes in Tradescantia fluminensis after treatment with growth substances. Contribution from Boyce Thompson Institute 9: 437-454.

Bonner, J., 1938. A chemical and physiological study of Traumatin; - a plant wound hormone. Plant Physiology 13: 331-348.

Booth, N.O., Some investigations in grafting. Proc. Society for Horticultural Science 144-149.

Bosworth, H.N., 1948. Panel discussion. National Shade Tree Conference - (Arborist's News) Vol. 13.

Bowersox, T.W., 1968. Auxin inhibition of epicormic shoots in White Oak. Forest Science 14: 192-196.

Boyce, J.S., 1948. Forest pathology - stem diseases: decay. McGraw-Hill Book Company, Inc. 348-349 & 510-511.

Brown, A.B., 1935. Cambial activity, root habit and sucker development in two species of Poplar. New Phytologist 34: 163-179.

Brown, A.B., 1936. Cambial activity in Poplar with particular reference to polarity phenomena. Can. J. Research C, 14: 74-88.

Brown, A.B., 1937. Activity of the vascular cambium in relation to wounding of the Balsam Poplar (P. balsamifera L.) Can.J. Research 15: 7-31.

Brown, A.B., 1937. Stimulation of cambial activity locally in the region of application and at a distance in relation to a wound by means of heteroaxin. Can. J. Research 15: 433-441.

Buck, G.J., 1954. The histology of the bud graft union in Roses. Iowa State Coll. Journ. Sci. 28: 587-602.

Buckland, D.C., 1957. Definitions of terms in forest and shade tree diseases. Can. J. Bot. 35: 675-679.

Bunning, E., 1959. In the "Handbuch der Pflanzenphysiologie" 17(1): 119-134. (Publ. Springer Berlin).

ADDITIONS

Cain, J.C., 1956. Effects of Nitrogen and pruning on trunk growth in Peaches. American Society for Horticultural Science 67: 139-143.

Cameron, S.H., 1945. Cambial activity and Starch cycle in bearing Orange trees. American Society for Horticultural Science 46: 55-59.

Carter, M.V., 1967. The effect of pruning time on the incidence of Eutypa armeniacae infection in Apricot trees. Austral. J. of Exp. Agric. & Animal Husbandry 7(24): 584-586.

Chadwick, L.C., 1931. Factors influencing the rooting of Deciduous hardwood cuttings. American Society for Horticultural Science : 455-459.

Chadwick, L.C., 1949. Effect of certain mediums and watering methods on the rooting of cuttings of some Deciduous and Evergreen plants. American Society for Horticultural Science 53: 555-572.

Chadwick, L.C., 1949. Effects of certain pruning practices and wound dressing on callusing of tree wounds. American Society of Horticultural Science 53: 226-232.

Childers, J.T., 1957. The effect of time of taking cuttings on the rooting of three cultivars of American Holly (Ilex opaca Ait). American Society for Horticultural Science 70: 445-450.

Childs, T.W., 1956. Pruning and occurrence of heart rot in young Douglas Fir. Pac. North West For. and Range Exp. Sta. Res. Note 132 page 5.

Coggeshall, R.G., 1967. Enjoy the satisfaction of successful plant grafting. Hort., March, pages 24, 25, 44.

Collins, J.F., 1934. Treatment and care of tree wounds. U.S. Dept. Agr. Farmers Bul. 1726: 1-38.

Connors, C.H., 1916. Methods of work in pruning investigations. American Society for Horticultural Science. Proc. of Annual meeting at New York. 14-17.

Cooley, J.S., 1942. Wound dressing on Apple trees. U.S. Dept. Agr. Cir. 656: 1-19.

Cormack, R.G.H., 1966. A further study of callus tissue development on stem cuttings of Balsam Poplar. Can. J. of Botany 44: 47-50.

Crowdy, S.H., 1949. A progress report on the effect of organic chemicals on the healing of wounds on Apple trees. Ref. Agric. Hort. Res. Sta. Bristol 1948: page 155.

Crowdy, S.H., 1953. Observations on the effect of growth stimulating compounds on the healing of wounds on Apple trees. Ann. Appl. Biol. 40: 197-207.

ADDITIONS

Davies, E.A., 1949. The wound healing of trees as affected by plant growth regulating substances. Proc. American Society for Horticultural Science 53: 233-238.

Davies, E.A., 1949. Effects of several plant growth-regulators on wound healing of Sugar Maple. Botanical Gazette 111:69-77.

Dochinger, L.S., 1962. Fusarium canker found on Yellow-Poplar. J. of Forestry, May: 331-333.

Dodge, F.A., 1942. Practical aspects of tree injection for disease control. National Shade Tree Conference 18: 154-163.

Downs, R.J. and H.A. Borthwick, 1956. Effects of photoperiod on growth of trees. Botanical Gazette 177: 310-356.

ADDITIONS

Effer, W.R., 1969. Woody growth retardation - screening of chemicals for cut surface application. Suppl. to Proc. North East Weed Control Conference

English, J., 1939. Structure and synthesis of a plant wound hormone. Science 90: page 329.

English, J., 1937. The wound hormone of plants I. Traumatim, the active principle of the Bean test. Journ. Biol. Chem. 121: 791-799.

ADDITIONS

Felt, E.P., 1943. Delayed winter injury. Proc. National Shade Tree Conference 19: 19-22.

Fenner, C., 1942. Shade method of direct cambium-to-bark development. National Shade Tree Conference 18: 131-138.

Forsyth, W., 1806. A treatise on the culture and management of fruit trees. Pages 454-462, 4th ed.

Frazer, D.A., 1952. Initiation of cambial activity in some forest trees in Ontario. Ecology 33: 259-273.

Fuller, R.G., 1965. Tree wound dressing for sprout control in pole line clearing. Edison Electric Bull. 33: 290-294.

Fuller, R.G., 1966. Growth retardant wound dressing. Arborists News 31(1): page 16.

ADDITIONS

Galston, D.W., 1969. Hormonal regulation in higher plants. Science 163: 1288-2197.

Gardiner, V.R., 1916. Pruning investigations. Oregon Agr. Exp. Sta. Bul. 274.

Gardner, M.R., 1972. Growth control in trees - healing of tree wounds in relation to growth regulators and wound dressings (in preparation).

Gardner, M.R., 1970. Growth control in trees - a study in the control of sucker growth on Utility pruned trees. Proc. International Shade Tree Conference 46: 64-69.

Gunderson, A.J., 1916. The pruning of winter-injured Peach trees. Proc. American Society for Horticultural Science Annual Meeting 13: 32-38.

ADDITIONS

Haberlandt, G. 1902. Culturversuche mit isolierten Pflanzenzellen. Sitz. Ber. K. Aked. Wiss. Wien. Math. -nat Classe 111, 1:69-91.

Haberlandt, G., 1921. Wundhormone als Erreger von Zellteilungen. Beitr. Allg. Bot. 2:1-53.

Haberlandt, G., 1921. Zur Physiologie der zellteilung. Uber Auslosung von zellteilungen durch Wundhormone. Sitzungsb. Kgl. Preuss. Acad. Wiss. Berlin 221-234.

Haberlandt, G., 1922. Uber zellteilungshormone und thre Bezichungen zur Wundheiling, Befruchtung, Parthenogenesis und Adventivembryonie. Biol. Zent. 42: 145-172.

Hackett, W.P., 1970. Chemical control of plant growth in landscapes. Calif. Agric. Exp. Sta. Bull. 844: 1-19.

Hale, S., 1727. Vegetable staticks. W.E.J. Innys and T. Woodward, London.

Harris, R.W., 1970. The control of trunk sprouts on landscape trees. Proc. International Shade Tree Conference 46: 57-63.

Heald, M.S., 1943. Introduction to plant pathology. McGraw-Hill Book Co., Inc. page 290.

Hendricks, S.B., 1966. Light effects on growth and dormancies in plants. Am. Chem. Soc. Abstr. of papers 152.

Hepting, G.H. 1949. Discoloration and decay from increment borings. Jour. Forestry 47: 366-370.

Herring, H.G. et al., 1958. Wound area as influenced by closeness of pruning. J. Forestry 56: 219-220.

Higdon, R.J., 1963. Some factors affecting the rooting of hardwood Pear cuttings. American Society for Horticultural Science 83: 193-198.

Hirt, R.R., 1961. Decay in trees. Proc. National Shade Tree Conference 37: 20-28.

Hitchcock, A.E., 1939. Comparative activity of root-inducing substances and methods for treating cuttings. Contribution from Boyce Thompson Institute 10: 461-480.

Honey, P.M., 1967. Some implications of large tree pruning. J. Royal Hort. Soc. XCII (10) 446-449.

Hook, R., 1970. Horticulture. The wound dressing. Published by J.M. Dent Ltd. page 148.

Hottes, C., 1967. The book of trees. Pruning. Dodd Mead & Co. pp. 114-120.

Howard, G.S., 1963. Induction of callus tissue on Apple grafts prior to field planting and its growth effects. American Society for Horticultural Science 82: 11-15.

Howe, G.H., 1915. Effect of various dressings on pruning wounds of fruit trees. N.Y. Agr. Exp. Sta. Bull. 396: 83-94.

Hunt, J., 1962. Decay associated with thinning wounds in young growth Western Hemlock and Douglas Fir. J. of Forestry, May: 336-340.

ADDITIONS

I.

Irving, R.M., 1967. Environmental control of cold hardiness in woody plants. Plant Physiology 42: 1191-1196.

ADDITIONS

Jacobs, H.L., 1935. A modern view of twenty-five years of cavity treatment. Proc. National Shade Tree Conference 11: 55-60.

Jacobs, W.P., 1965. Auxin transport, gibberellin and apical dominance. Science 148: 1729-1731.

Jakes, E., 1939. Uber den Einfluss der Wuchsstoffe auf Wundegwebebildung bei Obstbaumen Gartenbauwiss 13: page 83.

Jensen, R.E., 1970. The effect of certain environmental factors on cambium temperatures of Peach trees. American Society for Horticultural Science 95(3): 286-292.

Jorgensen, E., 1961. The formation of pinosylvin and its monomethyl ether in the sapwood of Pinus resinosa Ait. Can. J. Botany 39: 1765-1772.

Jorgensen, E., 1962. Observations on the formation of protection wood. Forestry Chron. 38: 292-294.

Jorgensen, E., 1969. Formation of heartwood phenols in callus tissue culture of Red Pine (Pinus resinosa). Can. J. Botany 47: 1015-1016.

Jump, J.A., 1936. Wound responses of Ficus australis. Bulletin of the Torrey Botanical Club 63: 477-481.

ADDITIONS

King, G., 1970. Polyurethane for filling tree cavities. Proc. International Shade Tree Conference 36: page 13.

Knight, R.C., 1934. The influence of winter stem pruning on subsequent stem and root development in the Apple. J. Pomol. 12: 1-14.

Kozlowski, T.T. (ed) 1962. Tree growth. Ronald Press Co., N.Y. 442 pp.

Kozlowski, T.T., 1964. Shoot growth in woody plants. Bot. Review 30(3): 335-392.

Kozlowski, T.T., 1971. Growth and development of trees Vol. 2. Chap. I to IV Cambial growth. Academic Press.

ADDITIONS

La Rue, C.D., 1937. Cell outgrowths from wounded surfaces of plants in damp atmospheres. Papers Mich. Acad. Sci. 22: 123-139.

Larson, P.R., 1963. Stem form development of forest trees. Forest Science - Monograph 5: 31-42.

Lazenby, W.R., 1905. Notes on pruning. Proc. Soc. Hort. Sci. Annual meeting 3: 27-30. (publ. in 1908).

LeBarron, R.K., 1970. The tree that does not need band-aids. J. of Forestry 68(2): page 97.

Leonard, O.A., 1966. Translocation of herbicides and assimilates in Red Maple and White Ash. Botanical Gazette 127(4): 193-201.

Liming, F.G., 1940. Origin and growth of dormant buds in Oak. J. Forestry 38: page 226.

Lipetz, J., 1970. Wound healing in higher plants. Int'l Rev. Cytol. 27: 1-28.

Lybeck, B.R., 1959. Winter freezing in relation to the rise of sap in tall trees. Plant Physiology 34 (Supplement): 482-486.

ADDITIONS

Maggs, D.H., 1960. The effect of number of shoots on the quantity and distribution of increment in young Apple trees. Ann. Bot. N.S. 24: 345-355.

Maggs, D.H., 1961. Changes in the amount and distribution of increment induced by contrasting watering Nitrogen and environmental regimes. Ann. Bot. N.S. 25: 353-361.

Maggs, D.H., 1965. Dormant and summer pruning compared by pruning young Apple trees once on a succession of dates. J. Hort. Sci. 40(3): 249-265.

Man, C., 1968. Mechanical injury to trees. Proc. Municipal Tree Maintenance Seminar. Winnipeg.

Mar:Møller, C., 1960. The influence of pruning on the growth of Conifers. Forestry 33: 37-53.

Marshall, G.W., 1931. Water blistering of wound dressings. Phytopathology 21: 1173-1180.

Marshall, R.P., 1931. The relation of season of wounding and shellacing to callus formation in tree wounds. U.S. Dept. Agr. Tech. Bull. 246: 1-30.

Marshall, R.P., 1932. A rubber dressing for tree wounds. Phytopathology 22(2): 1089-1091.

Marshall, R.P., 1932. Some experimental treatments of shade tree wounds. The Shade Tree 5: 1-3.

May, C., 1949. Keeping shade trees healthy. U.S.A. Dept. of Agr. Year Book 1949 91-96.

May, C., 1959. Effects of asphalt varnish-fungicide mixtures on growth in pure culture of some Fungi that cause decay in trees. National Shade Tree Conference (Arborist's News) Vol. 24 (11): 83-86.

McDonaugh, E.S., 1948. The relation of Fungi to cavity formulation in trees. Proc. National Shade Tree Conference 24: 5-10.

McQuilkin, W.E., 1945. Lanolin mixtures as dressings for tree wounds. National Shade Tree Conference (Arborist's News) Vol. 10 (3): 17-19.

McQuilkin, W.E., 1950. Effects of some growth regulators and dressings on the healing of tree wounds. J. Forestry 48: 423-428.

Meserve, A.W., 1951. Pruning for prevention of storm damage. Proc. National Shade Tree Conference 27: 50-57.

Millington, W.F., 1963. Shoot tip aberation of Ulmus americana. American Journal of Botany 50: 371-378.

Miltkovsky, G.H. and Paskary, S.J., 1949. The effect of certain growth stimulants in a mixture with Nigrol and ash on the healing of wounds in woody plants. Dokl. Akad. Nonk. S.S.S.R. 69: 97-100 (In Russ.).

Moss, A.E., 1937. Pruning second growth hardwoods in Connecticut. J. Forestry 35: 823-828.

Murneek, A.E., 1940. Some physiological factors in growth and reproduction of trees. American Society for Horticultural Science : 666-671.

ADDITIONS

Nank, E., 1949. Effects of pruning and wound dressings upon callusing. National Shade Tree Conference (Arborist's News) 14: 1-5.

Neel, P.L., 1967. Factors influencing tree trunk development. Proc. International Shade Tree Conference 43: 293-303.

Neel, P.L., 1969. Growth factors in trunk development of young trees. Proc. International Shade Tree Conference 45:

Neel, P.L., 1970. Experimental manipulation of trunk growth in young trees. Proc. National Shade Tree Conference 46: 25-29.

Neely, D., 1970. Healing of wounds on trees. American Society for Horticultural Science 95(5): 536-540.

Neely, D., 1970. Tree wounds. Ground Maintenance, pages 8 and 88.

Neilson, J.A., 1935. Some new grafting compounds and wound dressings. American Fruit Grower 55: page 8.

Nesbitt, W.A., Aerial roots from old tree wounds. Report of Appalachian Forest Exp. Station: page 689.

Newby, W.W., 1936. Technique for preparing microscopic sections of woody stems and roots. Botanical Gazette 98: 198-199.

Noel, A.R., 1970. The girdled tree. Bot. Review 36(2): 162-187.

ADDITIONS

Oliver, R.W., and Grace, N.H., 1940. Some uses of plant hormones. Dept. of Agr. Canada. Pbl. No. 665.

ADDITIONS

Paterson, A., 1937. The occlusion of pruning wounds in Norway Spruce. (Picea excelsa). Ann. Bot. 2: 681-698.

Phares, R.E., 1962. Basal sprouting of fire-injured Shortleaf Pine trees. J. Forestry, March: 204-205.

Phillips, F.J., 1911. Two sprouting Conifers of the southwest. Botanical Gazette 51: 385-391.

Pirone, P.P., 1959. Tree maintenance. Treatment of wounds. Oxford University Press 79-84.

Priestly, J.H., 1927. The effect of gravity upon cambial activity in trees. Proc. Leeds Phil. Soc. (Sci. Sect.) 1(5): 199-208.

Priestly, J.H., 1930. Studies in the physiology of cambial activity. II. The concept of sliding growth. New Phytologist 29: 96-140.

ADDITIONS

Quigley, K.L., 1970. Effects of wound dressings on wood in living trees. U.S. Forest Service Delaware Northeastern Forest Experiment Station Contract 23-00, 236.

ADDITIONS

Robitaille, H.A., 1970. Graft union behaviour of certain species of Malus and Prunus. American Society for Horticultural Science 95(2): 131-134.

Romberger, J.A., 1969. Apical meristems of trees, why we study them. Agricultural Science Review 7(2): 1-10.

Roth, E.R., 1943. Wounds and decay caused by removing large comparison sprouts of Oaks. J. Forestry 41: 190-195.

Row, V.V., 1959. Growth regulants in Maple bark and flower. Contribution from Boyce Thompson Institute (20): 381-383.

ADDITIONS

Sachs, R.M., 1969. Growth control on trees - anatomical and physiological aspects. Proc. International Shade Tree Conference 45: 60-78.

Samish, R.M., 1957. The effect of various dressings on the healing of pruning wounds in Apple trees. Proc. American Society for Horticultural Science 70: 5-9.

Sass, J.E., 1933. Formation of callus knots on Apple grafts as related to the histology of graft union. Botanical Gazette 94: 364-380.

Sax, K., 1954. The control of tree growth by phloem blocks. Jour. Arnold Arboretum 30: 251-258.

Schaffner, J.H., 1925. Effect of lightning on trunk of Platanus occidentales. Botanical Gazette LXXIX : 226-227.

Sciaroni, R.H., 1962. Recent chemical development of use to the arborists. Proc. International Shade Tree Conference 38: 82-85.

Selby, A.D., 1912. Dressings for pruning wounds of trees. Ohio Agr. Exp. Sta. Cir. 126: 163-170.

Selders, A.A., 1968. Autoradiograph of Pine trunk cross section. J. Forestry 66(2): page 137.

Sharples, A., 1933. Callus formation in Hibiscus rosasinensis L. and Hevea brasiliensis Mull. Ann. Botany 47: 827-839.

Shear, G.M., 1936. Lanolin as a wound dressing for trees. Proc. American Society for Horticultural Science 34: 286-288.

Shippy, W.B., 1930. The influence of environment on the callusing of Apple cuttings and grafts. Am. Journ. Bot. 17: 290-327.

Simons, R.K., 1970. Phloem tissue development in response to freeze injury to trunks of Apple trees. American Society for Horticultural Science 95(2): 182-190.

Skilling, D.D., 1958. Wound healing and defects following northern hardwood pruning. J. Forestry 56: 19-22.

Sledge, W.A., 1930. The rooting of woody cuttings considered from the standpoint of anatomy. J. Pom. Hort. Sci. 8: 1-22.

Smith, H.C., 1966. Epicormic branching on eight species of Appalachian hardwoods. U.S. Forest Serv. Note NE-53: 4.

Snow, R., 1932. Experiments on growth and inhibition. III Inhibition and growth promotion. Proc. Roy. Soc. Lond. B. 111: 86-105.

Snow, R., 1933. The nature of cambial stimulus. New Phytologist 32: 288-296.

Snow, R., 1935. Activation of cambial growth by pure hormones. New Phytologist 34: 347-360.

Studhalter, R.A., 1963. Tree growth. Some historical chapters in the study of diameter growth. Bot. Review 29: 245-365.

Swarbrick, T., 1926. The healing of wounds in woody stems. Journ. Pom. and Hort. Sci. 5: 98-114.

Swingle, C.F., 1929. A physiological study of rooting and callusing in Apple and Willow. J. Agr. Res. 39(2): 81-128.

Swingle, C.F., 1940. Regeneration and vegetative propagation. Bot. Rev. 6: 301-355.

ADDITIONS

Takahara, S., 1949. The influence of the shading on healing of the wounds due to artificial pruning in some Conifers. Tokyo Univ. Forests Bull. 37.

Talbert, T.J., A comparison of pruned and unpruned Apple trees. American Society for Horticultural Science : 113-115.

Tepper, H.B., and C.A. Hollis, 1967. Mitotic reactivation of the terminal bud and cambium of White Ash. Sci. 156: 1635-1636.

Thimann, Kv., 1934. On the inhibition of bud development and other functions of growth substances in Vicia faba. Proc. Roy. Soc. B. 114: 317-339.

Thimann, Kv., 1935. Identity of the growth promoting and root forming substances of plants. Nature 135: page 101.

Thompson, B.F., 1945. Tissue responses to physiologically active substances. Botanical Gazette XI: 593-610.

Tilford, P.E., 1940. Tree wound dressings. Proc. National Shade Tree Conference 16: 41-54.

Tilford, P.E., 1947. Do all wound dressing injure cambium. National Shade Tree Conference Arborist's News 12(10) page 78.

Tukey, H.B., 1932. Experiences in rooting soft and hardwood cuttings of hardy fruits. American Society for Horticultural Science 28: 460-464.

ADDITIONS

Upshall, W.H., 1939. Summer pruning of Peach tree in the nursery row. American Society for Horticultural Science : 343-344.

ADDITIONS

Vite, J.P., Observations on the movement of injected dyes in Pinus ponderosa and Abies concolour. Contribution of Boyce Thompson Institute 20: 7-26.

Vogt, A.R., 1962. The influence of auxin on basal sprouting of Oak seedlings. M.S. Thesis Univ. Missouri, Columbia.

Vogt, A.R., 1966. An investigation of physiological factors controlling initial sprouting of Oak. Ph.D. Dis. Univ. Missouri, Columbia.

Vogt, A.R., 1970. Evidence for the hormonal control of stump sprouting by Oak. Forest Science 16(2): 165-171.

Von Rudloff, E., 1963. The biosynthesis of pinosylvin in the sapwood of Pinus resinosa Ait. Phytochemsitry 2: 297-304.

ADDITIONS

Walter, J.M., 1941. Transmission of the Planetree Ceratostomella in asphalt wound dressings. Proc. National Shade Tree Conference (Arborist's News) 6(1): page 7.

Walter, J.M., 1944. Wound dressing for London Plane trees. The Plant Disease Reporter 28(10): page 43.

Ward, W.W., 1964. Bud distribution and branching in Red Oak. Botanical Gazette 125(3): 217-220.

Wareing, P.F., 1958. The physiology of cambial activity. T. Inst. Wood Sci. 1: 34-42.

Weiss, H.F., 1906. The structure and development of the bark in the Sassafras. Botanical Gazette XLI: 434-444.

Welch, D.S., 1945. Apple tree pruning wounds. New York (Cornell) Agr. Exp. Sta. Bul. 821: 1-23.

Welch, D.S., 1949. The cause and treatment of cavities in trees. Proc. National Shade Tree Conference 25: 126-135.

Went, F.W., Some physiology factors in the aging of a tree. Proc. Western Shade Tree Conference : 330-334.

Went, F.W., 1945. Wounding and Sugar translocation. Plant Physiology 20: 457-460.

Wiesner, J., 1892. Die Elementarstructur und das Wachsthum der lebenden Substanz Wien. page 102 and ff.

Wilhelm, A., 1930. Untersuchunger uber das Chromogen in Vicia faba. Jahrb. wiss. Bot. 72: 203-253.

Wilson, L.F., 1970. Early basal pruning to control forest pests. J. Forestry 68(10): 632-634.

Winkleplick, R.L., Lanolin emulsions as carriers of growth substances. American Society for Horticultural Science : 94-96.

ADDITIONS

Young, H.C., 1937. Tree wound dressings. Ohio Agr. Exp. Sta. Biomonthly Bull. 22: 83-87.

Young, W.J., 1921. Water glass as a dressing for pruning wounds. Proc. American Society for Horticultural Science 18: 188-190.

Young, W.J., 1923. Waterglass - a new wound dressing for trees. Ohio Agr. Exp. Sta. Monthly Bull. 8: 13-16.

ADDITIONS

Zeeuw, C. de., 1941. Influences of exposure on the time of deep cork formation in three northeastern trees. New York State Col. For. Syracuse Univ. Bull. 56: page 10.

Zeiger, D.C., 1954. A precision instrument for measuring trunk diameter increase of orchard trees. American Society for Horticultural Science 64: 191-198.

Zimmerman, P.W., 1940. Adventitious shoots and roots induced by natural influences and synthetic growth substances. Contribution from Boyce Thompson Institute 11: 127-141.

ADDITIONS

LITERATURE TITLES - GROWTH REGULATORS

AND ASSOCIATED TOPICS

(GRASS)

_____, 1950. New chemical retards the growth of turf grasses. Crops and Soils : page 23.

_____, 1954. Chemical eliminates tedious trimming by hand on lawns. Texas Farming and Citriculture.

_____, 1956. Malazide plant growth regulator. Published by Fisons Chemicals (Export) Ltd. London, Eng. 22pp.

_____, April, 1968. Maintain CF-125, a new plant growth retardant. US Borax Technical Data Sheet.

Adamson, B.M., 1955. Chemical control of sod around Apple trees. Research Report National Weed Committee. (Western Sect) Canada, page 101.

Anderson, C.J., 1953. Effect of MH as a growth retardant on maintained lawns. North Central Weed Control Conference : page 151.

ADDITIONS

Bohne, P.W., 1962. The present status of MH-30 as a management tool for highway turf. Agronomy Abstracts. Aug.: page 101.

Brian, P.W., 1957. Effect of MH on the growth response of plants to GA. Ann. Applied Biol. 45: 489-497.

Brown, W.G., 1970. Growth Regulation of Turf. M.Sc. Thesis. The Faculty of Graduate Studies and Research of the University of Guelph.

Bruinsma, J., 1966. Plant growth regulators. Toys and Tools. Meded Risksfac Landbouwwentenschappen Gent 31(3): 343-369.

Burton, J.C., 1958. Influence of TIBA on growth, nodulation, and yields of inoculated soybeans. Agron. J. 58: 406-408.

Butler, B.J., 1962. Current trends in equipment for roadside cover establishment and maintenance. Paper presented to Highway Research Board, Washington, D.C.

Button, E.F., 1960. Progress report on rate and management studies for growth suppression of Highway turf with Maleic Hydrazide. Proc. Northeastern Weed Control Conference 14: 520-528.

ADDITIONS

C.

Cabler, J.F., 1963. Chemical growth retardants for turf grasses. Golf Course Reporter 31: 1 & 35.

Cathey, H.M., 1964. Physiology of growth retarding chemicals. Ann. Ref. Plant Physiol 15: 271-302.

Churchill, B.R., 1954. Chemical grass killers shortly before seeding for pasture establishment. Proc. North Central Weed Control Conference : page 94.

Cleland, R., 1965. Evidence on the site of action of growth retardants. Plant Cell Physiol. 6: 7-15.

Curtis, D.V., 1955. Herbicide work on New York State highways. Proc. Northeastern Weed Control Conference 9 : 363- 70. (N.Y. State Highway Dept., Babylon, L.I.)

Curtis, O.F., 1951. Maleic Hydrazide for grass control in fruit plantings. Proc. of the Northeastern Weed Control Conference Supplement 5: 115-117.

ADDITIONS

D.

DeFrance, J.A., 1954. The effect of Maleic Hydrazide on the growth of lawn turf grasses. Paper presented North East Section Am. Society for Horticultural Science, Cambridge, Mass.

Dennis, D.T., 1965. An enzymic site of inhibition of gibberellin biosynthesis by Amo-1618 and other plant growth retardants. Plant Physiology 40; 948-952.

Dore, A.T., 1970. Effect of four growth retardants on Kentucky Bluegrass and Red Fescue used for roadside turf. Proc. Northeastern Weed Control Conference 25: 123-139.

Dudley, J., 1962. Our experience with the growth inhibitor MH-30. Golf Assoc. Southern Turfletter No. 4 Mimeo 3 pages.

ADDITIONS

E.

Effer, W.R., 1968. Retardation of grass growth on rights-of-way using Maleic Hydrazide. The Hydro Electric Power Commission of Ontario Research Division Report. No. 68-383-H.

Effer, W.R., 1970. Chemical retardation of grass growth on rights-of-way. The Hydro Electrical Power Commission of Ontario Research Division Report. No. 70-123-H.

Effer, W.R., 1970. Retardation of grass growth on lawn areas. The Hydro Electric Power Commission of Ontario Research Division Report. No. 70-102-H.

Engel, R.E., 1950. Some effects of Maleic Hydrazide on turf grasses. Agronomy Journal 42: 461-462.

Escritt, J.R., 1953. Grass growth stunting with Maleic Hydrazide. Journ. Sports Turf Research Institute 8: 1-5.

Eskew, E.B., 1950. Maleic Hydrazide on mixed grasses and weeds. Proc. North Central Weed Control Conference : page 186.

F.

Fischnich, O., 1954. Application of Maleic Hydrazide to some cultivated plants. Angew. Botanik 28: 88-113.

Fox, D.F., Plant growth regulators for use on roadsides. Naugatuck Chemical Div. U.S. Rubber Co. Naugatuck Conn.

Foote, L.E., MH as a roadside grass retardant. Weed Science 19(1):

ADDITIONS

Galston, W., 1969. Hormonal regulation in higher plants. Science 163(3873): 1288-1297.

Gardner, M.R., 1970. Maleic Hydrazide treatment of lawns. The Hydro Electric Power Commission of Ontario Forestry Department Technical Information Bulletin No. 11.

Gardner, M.R., 1971. Grass retardation Guide to Chemical Weed Control. Ontario Department of Agriculture and Food Publication 75: page 52.

Gaspar, T., 1968. The effect of CCC and Amo-1618 on growth catalase and indoleacetic acid oxidase activity of young Barley seedling. Physiol. Plantarum. 21(5): 1104-1109.

Greene, W.C., 1955. The progress of weed control on Connecticut State Highways. Proc. North East Weed Control Conference 9 : 429-432.

Grimm, D.G., 1961. Methods of applying Maleic Hydrazide. Proc. North East Weed Control Conference 15:

Grtyih, D.N., The inhibiting effect of Maleic Hydrazide (MH-30) on lawn grasses. Central Experiment Station Contribution No. 1868 Univ. of Phillipines Mimeo. 11 pp.

ADDITIONS

Halevy, A.H., 1963. Interaction of growth-retarding compounds and gibberellin on indoleacetic acid oxidase and peroxidase of Cucumber seedlings. Plant Physiol. 38: 731-737.

Harada, H., 1965. Effect of some (2-chloroethyl) trimethyl ammonium chloride analogs and other growth retardants on gibberellin biosynthesis in Fusarium moniliforme. Plant Physiol. 40: 176-182.

Hardie, M., 1969. A new plant growth regulator used to maintain Georgia Highway rights-of-way. Proc. Southern Weed Conference

Harris, G.K., 1969. Maintain CF-125 as a growth retardant - results of field tests. US Borax Research Corporation, 412 Crescent Way, Anaheim, Calif.

Harris, G.K., 1970. The use of Maintain CF-125 to control the growth rate of grass and suppress weed growth. US Borax Research Corporation. Presented at the National Turfgrass Conference, Toronto.

Hart, S.W., 1955. Effects of Maleic Hydrazide on the growth of turf grass. Golf Course Reporter, Sept., Oct.

Herron, J.W., 1954. Results of research in 1954. Control of Nimblewill in Bluegrass turf. Univ. of Kentucky Annual Report 67: 69-70.

Humphries, E.C., 1967. Interaction of CCC and water deficit on Wheat yield. Nature 215: page 782.

ADDITIONS

I.

Iurka, H., 1951. Progress report on the use of herbicides to eliminate hand mowing under guard rails and around traffic signs along New York State Highways. Proc. North East Weed Control Conference 5 : 329-332.

ADDITIONS

J.

Jagschitz, J.A., 1970. Chemical control of *Poa annua* L. in turfgrass and the effect of various chemicals on seed production. Proc. North East Weed Control Conference 24: 393-400.

ADDITIONS

Kende, H., 1963. Inhibition of gibberellic acid biosynthesis in Fusarium moniliforme by Amo-1618 and CCC. Naturwissenschaften 50: 599-600.

Kessler, B., 1958. Effect of TIBA and MH upon transport of foliar applied calcium and iron. Plant Physiol. 33: 70-72.

Khan, A.A., 1966. Morphactins destroy plant responses to gravity and light. Farm Research 32(3): 2-3.

Khan, A.A., 1967. Physiology of morphactins; effect on gravity and photo-response. Physiol. Plantarum 20: 306-313.

Kosesan, W.H., 1956. Effect of timing of Maleic Hydrazide on growth inhibition of roadside grasses. Research Progress Report. Proc. Western Weed Control Conference page 116.

Kozel, P.C., 1969. Morphactins, a new group of growth regulators. Ohio State University publication.

Kravel, E., 1969. Influence of growth retardants on growth, nutrient content, and yield of Tomato plants at various fertility levels. Journal Amer. Soc. Hort. Sci. 94(1): 832-835.

Krelle, E., 1967. Effect of a morphactin on synthesis of amylase in Barley endosperm. Planta 76: page 179.

Krelle, E., 1968. Inhibition of the polar auxin transport by a morphactin. Planta 80: 317-320.

Krelle, E., 1968. Are morphactins specific or non-specific blockers of tropisms. Experiments 24: page 293.

L.

Laning, E.R., 1952. Growth inhibition of grasses. Proc. Western Weed Control Conference : page 155.

Lockhart, J.A., 1962. Kinetic studies of certain antigibberellins. Plant Physiol. 37: 759-764.

ADDITIONS

M.

Madison, J.H., 1969. Testing fluorine compounds for chemical mowing of turfgrass. California Agriculture. August.

Mahdi, Z., 1953. The change of populations of turf grasses by plugging. Golf Course Reporter 21: 22-27.

Mann, J.D., 1966. Independence of mo rphactin and gibberellin effects upon higher plants. Plant Physiol. 41(10): 1751-1752.

Morgan, D.G., 1968. The regulation of growth and development by plant growth substances. Euphytica 17(1968 Suppl. 1): 189-213.

Muller, E.W., 1963. Trials to determine if MH-30 can be used in a roadside maintenance program in New York State. Proc. Northeast Weed Control Conference 17:

ADDITIONS

N.

Ninnemann, H., 1964. The plant growth retardant CCC as inhibitor of gibberellin biosynthesis in Fusarium moniliforme. Planta 61: 229-235.

Noer, O.J., 1953. New method speeds coverage with Bermuda plugs. Golfdom, July: 47-48.

Novog, J.V., 1970. An analysis of lawn maintenance including chemical retardants and alternatives. Report for The Hydro Electric Power Commission of Ontario.

P.

Parris, C.D., 1954. Herbicidal eradication of unproductive centipede grass sod. Proc. Southern Weed Conference : 185-187.

Phalen, J., 1952. Trimming equipment. Notes and Quotes. Publication of National Catholic Cemetery Conf. 4: 5-6.

Povolotkaya, K.L., 1961. Mechanism of the action of Maleic Hydrazide in plants. Izv. Akad. Nank. U.S.S.R. 26 ser. Biol. No. 2, 250. Chem. Sbstr. 55: 27549.

Q.

R.

Reed, D.S., 1965. Plant growth retardant B995: a possible mode of action. Science 148: 1469-1471.

Rose, A., 1961. The condensed chemical dictionary. New York: Reinhodl Publ. Corp.

ADDITIONS

Sankhla, D., 1968. Morphactin - gibberellin extraction in Lettuce seed germination and seedling growth. Biol. Plantarum 10: page 37.

Sankhla, N., 1967. Morphactin-kinetin interaction in Lettuce seed germination and seedling growth. Plants 76: 47-51.

Schneider, E.F., 1967. Conversion of the plant growth retardant (2-chloro-ethyl) trimethyl ammonium chloride to choline in shoots of Chrysanthemum and Barley. Can. J. Biochem. 45: page 395.

Schneider, G., 1965. Morphactins, a novel group of plant growth regulators. Nature 208 (5014): page 1013.

Schneider, G., 1967. Morphactins, a new group of growth regulating chemicals. Published by the Biological Research Station, E. Merck AG, Darmstadt. English translation from Vero Bearch Laboratories, Inc.

Schoene, D.L., 1949. Maleic Hydrazide, a unique growth regulant. Science 109: 588-590.

Skogley, C.R., 1954. The influence of wetting agents on the phytotoxicity of several herbicides. Chem. Abstr. 48: 14084.

Stoutmeyer, V.T., 1954. Plugs to change turf. Californian Agriculture 8: 5-6.

ADDITIONS

Teltscherova, L., 1969. Changes in the level of endogenous gibberellins and auxins in apical buds of Chenopoarum rubrum L. after application of growth substances reversing the effect of CCC on flowering. Biological Abstracts.

Thimann, K.V., 1963. Plant growth substances; past, present, and future. ARPP 14: page 1.

Tognoni, F., 1967. The independent action of morphactins and gibberellic acid on higher plants. Plant and Cell Physiol. 8: 231-239.

Tolbert, N.E., 1960. CCC and related compounds as plant growth substances. II. Effects on growth of Wheat. Plant Physiol. 35: page 380.

Tullis, E.C., 1951. Maleic Hydrazide - a good grass controller. Proc. Southern Weed Conference : page 26.

ADDITIONS

V.

Vengris, J. 1956. Herbicides in the renovation of grasslands. Proc. North East Weed Control Conference 10 : 54-60.

ADDITIONS

W.

Webber, E.R., 1955. Maleic Hydrazide as a plant-growth inhibitor. World Crops 7: 179-183.

Wells, N.M. June 1955. Roadside vegetative cover. Final Report Research Project 1951-1954. Published by New York State Dept. Public Works at Albany. 52 pages.

White, D.B., 1969. Chemical regulation of growth in turf grasses. Proc. First International Turf Conference, Harrogate, England.

Wilkerson, J.A., 1960. The results of commercial highway application of MH for grass inhibition. Proc. North Central Weed Control Conference.

Williams, P.J., 1962. Use of Maleic Hydrazide MH-30 at WPAFB. Agron. Abstracts Aug. 1962, page 114.

Winter, A., 1967. The promotion of the immobilization of auxin in Avena coleoptiles by TIBA. Phys. Plantarum 20: 330-336.

ADDITIONS

Y.

Yemm, E.W., 1962. The effects of Maleic Hydrazide and 2, 4-dichlorophenoxyacetic acid on roadside weeds. Weeds Research 2: 24-40.

ADDITIONS

Zeevaart, J.A.D., 1966. Inhibition of stem growth and flower formation in Pharbitis vil with N, N-dimethyl amino succinamic acid. Planta 71: 68-80.

Zeevaart, J.A.D., 1966. Reduction of the gibberellin content of Pharbitis seeds by CCC and after effects in the progeny. Plant Physiol. 41: 856-862.

Zukel, J.W., Jan. 1952. Progress report on use of Maleic Hydrazide for grass inhibition on highway areas. Paper presented Highway Research Board, National Academy of Sciences, Washington, D.C.

Zukel, J.W., Jan. 1953. Report on use of Maleic Hydrazide for temporary growth inhibition of grass. Paper presented National Research Council, Highway Research Board, Washington, D.C.

Zukel, J.W., Nov. 1953. Use of a plant growth inhibitor to reduce rrequency of mowing on highway areas. Paper presented Committee on Maintenance, Am. Assoc. State Highway Officials, Pittsburgh.

Zukel, J.W., Dec. 1956. Effect of some factors on rate of absorption of Maleic Hydrazide by several plants. Proc. North Central Weed Control Conference.

Zukel, J.W., June 1963. A literature summary on Maleic Hydrazide 1957-1963. (Naugatuck Chemical Div. of US Rubber Co., Bethany, Conn.)

ADDITIONS

BOOK TITLES - GROWTH REGULATORS

AND ASSOCIATED TOPICS

_____, Plant Growth Regulators Science Monograph No.31 Society of Chemical Industry. 14 Belgrade Square, London, S.W.

_____, 1957. The Biological Action of Plant Growth Substances XI. Symposia of the Society of Experimental Biology. Academic Press.

_____, 1960. Style Manual for Biological Journals. American Institute of Biological Science 2000 pp. St. N.W. Washington DC 20036.

_____, 1961. Plant Growth Regulation. Iowa State University Press.

_____, 1964. Regulations Naturels de la Crosance vegetale No. 123 Edition du Centre Nationale de la Recherche Scientifique France.

_____, 1969. Report of the Secretary's Commission on Pesticides and their Relationship to Environmental Health. U.S. Department of Health, Education and Welfare; Supt. Documents, Washington DC.

_____, 1969. Chemical Regulation of Plant Processes (Proceedings of the Symposium). American Society for Horticultural Science.

_____, 1970. Naturally Occurring Grass Growth Regulators and Inhibitors. Bibl. No. 22

_____, 1970. Cold Hardiness, Dormancy and Freeze Protection of Fruit Crops (Proceedings of the Symposium). American Society for Horticultural Science.

_____, 1970. The Nature, Mechanisms and Control of Ripening. American Society for Horticultural Science.

_____, 1970. Herbicide Handbook of the Weed Science Society of American. Humphrey Press, New York.

Audus, L.J., 1964. Physiology and Biochemistry of Herbicides. Academic Press.

Audus, L.J., 1965. Plant Growth Substances. Interscience Publishers Inc.

Audus, L.J., 1959. Plant Growth Substances. Science Monograms. Leonard Hill Books, London.

Avery, G.S., 1947. Hormones and Horticulture. McGraw-Hill.

ADDITIONS

B.

Bonner, J., 1959. Principles of Plant Physiology. W.H. Freeman and Company, San Francisco.

Browning, B.L. (ed.) 1963. The Chemistry of Wood. John Wiley and Sons.

ADDITIONS

Cadle, R.D., 1956. Chemistry of Contaminated Atmosphere. Air Pollution Handbook. McGraw-Hill.

Christopher, E.P., 1954. The Pruning Manual. Macmillan Co. of Canada Ltd.

Clowes, F.A.L., 1961. Apical Meristems. Oxford University Press.

Conn, E.E., 1963. Outlines of Biochemistry. John Wiley & Sons Inc.

Cote, W.A. (ed.) 1965. Cellular Ultrastructure of Woody Plants. Syracuse University Press.

Cote, W.A., 1967. Wood Ultrastructure. University of Washington Press.

Crafts, A.S., 1961. Translocation in Plants. Rinehart and Winston.

Crafts, A.S., 1964. The Autoradiography of Plant Materials.

Curtis, W., 1969. Introduction to Plant Physiology. McGraw-Hill.

ADDITIONS

D.

Daubenmire, R.F., 1959. Plants and Environment. John Wiley & Sons.

ADDITIONS

E.

Eames, A.J., 1925. Introduction to Plant Anatomy. McGraw-Hill.

Evans, L.T., 1969. Environmental Control of Plant Growth. Academic Press.

ADDITIONS

F.

Faith, W.L., 1959. Air Pollution Control. John Wiley & Sons.

Fowells, H.A., 1965. Silvics of Forest Trees of the United States U.S. Forest Service. Agriculture Handbook No. 271.

Fox, E., 1968. Molecular Control of Plant Growth. Dixon Publishing Co.

ADDITIONS

G.

Galston, A.W., 1970. Control Mechanisms in Plant Development. Prentice-Hall.

Gardner, M.R.,1971. Growth Control in Trees. Vol. I. Chemicals and Field Data Sheets. Hydro Electric Power Commission of Ontario.

Garner, R.J., 1958. The Grafter's Handbook. Faber & Faber Ltd., London.

ADDITIONS

H.

I.

J.

Jane, F.W., 1956. The Structure of Wood. Black, London.

ADDITIONS

K.

Kearney, 1969. Degradation of Herbicides. Moral Dekker Inc., N.Y.

Klingman, G.C., 1961. Weed Control as a Science. John Wiley & Sons.

Kozlowski, T.T., 1971. Growth and Development of Trees. (Vols. I & II). Academic Press.

Kozlowski, T.T. (ed.) 1962. Tree Growth. Ronald Press.

Kozlowski, T.T., 1968. Water Defects and Plant Growth. Vol. II. Academic Press.

Kramer, P.J., 1960. Physiology of Trees. McGraw-Hill.

ADDITIONS

L.

Leopold, A.C., 1967. Auxins and Plant Growth. University of California Press.

Leopold, A.C., 1964. Plant Growth and Development. McGraw Hill.

Lubbuck, J., 1899. On Buds and Stipules.

Luckwill, L.C., 1970. Physiology of Tree Crops. Academic Press.

ADDITIONS

M.

Milthorpe, F.L., 1956. The Growth of Leaves. Butterworths, London.

Mitchell, L., 1952. Growth Regulators for Garden, Field and Orchard. University of Chicago Press.

Morris, T.N., 1951. Principles of Fruit Reservation. Chapman Hall Ltd.

ADDITIONS

N.

O.

P.

Preston, R.D., 1952. The Molecular Architecture of Plant Cell Walls. Chapman Hall Ltd.

Price, C.A., 1970. Molecular Approaches to Plant Physiology. McGraw-Hill.

ADDITIONS

Q.

R.

Roth, E.R., 1968. Structure Extractives and Utilization of Bark. The Institute of Paper Chemistry Bibl. Series 191.

ADDITIONS

S.

Schwankle, A., Bark. Thames and Hudson (out of print).

Silverstein, 1963. Spectrometric Identification of Organic Compounds. John Wiley & Sons Ltd.

Sinnott, E.W., 1960. Plant Morphogenesis. McGraw-Hill.

Skoog, F., 1951. Plant Growth Substances. University of Wisconsin Press.

Stecher, P.G., 1968. (ed.) The Merck Index. Merck and Co. Inc.

Stevens, W.C., 1924. Plant Anatomy. P. Blakiston's Sons and Co.

Stibbins, L.G., 1949. Seed Variation in the Evolution of Plants. Columbia University Press.

ADDITIONS

T.

Thimann, K.V. (ed.) 1958. The Physiology of Forest Trees. Ronald Press.

Thimann, K.V., 1955. Plant Growth Hormones , in The Hormones, Vol. III. Academic Press.

Treshaw, M., 1970. Environment and Plant Response. McGraw-Hill.

Tukey, H.B., Plant Regulators in Agriculture. John Wiley and Sons.

ADDITIONS

U.

V.

W.

Wain, R.L., 1956. (ed.) The Chemistry and Mode of Action of Plant Growth Substances. Butterworth Publications.

Went, F.W., 1957. The Experimental Control of Plant Growth. Chronica Botanica Co. Mass.

Wightman, F., (ed.) 1968. Biochemistry and Physiology of Plant Growth Substances. The Runge Press, Ltd., Canada.

ADDITIONS

Y.

Z.

Zimmerman, M.H., 1971. Trees - Structure and Function. Springer-Verlag Co.

Zimmerman, M.H., (ed.) 1964. The Formation of Wood in Forest Trees. Academic Press.

ADDITIONS

ONTARIO HYDRO UNPUBLISHED PAPERS AND REPORTS

Clark, C.H., 1970. CIL Spar Varnish Stores Code 166-1011:1, 834.513, March 11, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Corin, F., 1966. Experimental application of growth retarding chemicals, December 13, 1966. Forestry Department, Hydro Electric Power Commission of Ontario.

Effer, W.R., 1968. Tre-Hold tree wound dressing modified formulation, C68-44-H, February 26, 1968. Research Division, Hydro Electric Power Commission of Ontario.

Effer, W.R., 1970. Woody growth retardation IV - breaking of dormancy and evaluation of retardants on seedling trees, 70-470-H, November 6, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Effer, W.R., 1970. Woody growth retardation III - screening of chemicals for cut-surface application, 70-177-H, April 16, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Effer, W.R., 1969. Retardation of woody growth with napthalene acetic acid, 69-40-H, January 2, 1969. Research Division Hydro Electric Power Commission of Ontario.

Effer, W.R., 1969. Retardation of woody growth II - comparison of seven growth retardants, 69-54-H, February 13, 1969. Research Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1970. Report on potential growth regulator uses. Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1971. Development of spray program - growth regulators. Forestry Department System Maintenance Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1970. Growth regulator research at Beltsville (USDA) Ambler (Amchem) and Willmington (Du Pont). Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1970. Species composition along rights of way and rural distribution lines in Ontario. Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1969. Projected savings through the use of growth regulators. Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1970. Progress report on the use of growth regulators. Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1971. Report of meeting - interested parties in woody growth retardation. (Report circulated to attendees). Forestry Department Operations Division, Hydro Electric Power Commission of Ontario.

Gardner, M.R., 1971. Fortified tree wound dressings - a recommendation. Forestry Department System Maintenance Division, Hydro Electric Power Commission of Ontario.

Penny, A.P., 1971. Tree wound dressings - an evaluation of three aerosol packaged materials, C71-168-H, July 28, 1971. Research Division, Hydro Electric Power Commission of Ontario.

Penny, A.P., 1971. Tree wound dressings - an evaluation of seven materials, C71-25-H, February 9, 1971. Research Division, Hydro Electric Power Commission of Ontario.

Punhani, A.L., 1969. Statistical analysis of retardation growth of Red Pines in northeastern region, N69-8-H, Hovember 3, 1969. Research Division, Hydro Electric Power Commission of Ontario.

Punhani, A.L., 1970. Statistical analysis of retardation growth experiments in 1969 - supplement, N70-5-H, May 12, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Punhani, A.L., 1970. Incomplete block designs for statistical analysis balanced 4 x 4 lattice squares, N70-3-H, April 30, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Punhani, A.L., 1970. Incomplete block designs for statistical analysis partially balanced 3 x 4 rectangular lattice, N70-8-H, May 19, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Punhani, A.L., 1970. Statistical analysis of growth retardation experiments (1970-1971), 809.401, October 1, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Shelson, W., 1970. Statistical analysis of growth retardation experiments, 809.23, September 9, 1970. Research Division, Hydro Electric Power Commission of Ontario.

Suggitt, J.W., 1964. The chemical inhibition of woody plant growth - a resumé, 64-93, March 5, 1964. Research Division, Hydro Electric Power Commission of Ontario.

ADDITIONS

INDEX OF LITERATURE TITLES

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