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Plant Responses to Salinity: An Indexed Bibliography

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PLANT RESPONSES TO SALINITY: AN INDEXED BIBLIOGRAPHY

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PREFACE

Literature on plant responses to salinity is accumulating so rapidly it is nearly impossible to stay abreast of the current state of the art. Currently available computer searches are unable to provide pertinent citations without listing an excess of irrelevant citations. Furthermore, most computer-searchable data bases are limited to the past 10 years or less.

This computer-based bibliography resulted from the need for an extensive bibliography of publications on plant responses to salinity that can be readily searched and updated. The bibliography currently contains 2,357 citations obtained through a systematic search and review of the literature on salt and boron effects on plants from 1900 to 1977. Generally, only publications dealing with whole plants were included. Physiological and biochemical studies of salt effects on plant tissues and constituents were omitted.

All publications were reviewed for specific information on the plants studied, experimental materials and methods used, treatments and variables evaluated, and the results and data obtained. This information was included in the bibliography in the form of keywords. A computer-generated index allows rapid identification of the desired entries by plant names or by subject.

Because the bibliography is computer-readable, corrections and additions can be made at any time. We respectfully request that all users bring any errors and omissions to our attention. It is our intention to keep this bibliography current and accurate through periodic revisions. To facilitate this task, we would solicit reprints of any new papers published on this subject. Our address is U.S. Salinity Laboratory, Science and Education Administration, 4500 Glenwood Drive, Riverside, Calif. 92501.

ABSTRACT

Computer-based bibliography containing 2,357 literature citations, from 1900 to 1977, on salt and boron effects on whole plants. Keywords for each citation cover plants studied, experimental materials and methods used, treatments and variables evaluated, and results and data obtained. Computer-generated indexes allow rapid identification of desired entries by plant name or subject.

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INSTRUCTIONS FOR USE

Bibliographic Format

The citations are listed alphabetically by author and appear in the following order: Citation number; authors; title; language of article (other than English); journal name, volume, page numbers, and year; common plant names; botanical names; and keywords that describe methods, treatments, and results. The keyword categories are separated by double spaces.

Language Abbreviations

The following abbreviations are used to indicate the language of papers not published in English. Where English summaries were included, they are indicated by the abbreviation, ENG SUM.

AFR	Afrikaans	ITA	Italian
ARA	Arabic	JAP	Japanese
ARM	Armenian	KOR	Korean
CHI	Chinese	NOR	Norwegian
CZE	Czech	POL	Polish
DAN	Danish	POR	Portuguese
DUT	Dutch	RUM	Rumanian
FIN	Finnish	RUS	Russian
FRE	French	SPA	Spanish
GER	German	TUR	Turkish
HEB	Hebrew	UKR	Ukrainian
HUN	Hungarian		

Botanical Details

Many plant species have several common names and others none at all. For this reason and because some names are used differently in different regions, we recommend the use of botanical names whenever possible. Nevertheless, common names are included for convenience. Lesser known names used in many foreign publications were changed to popular names known to us. Hortus Third (MacMillan Publishing Co., New York 1976) was used as the authority where possible. Other reference sources used include:

Bailey, L. H. 1949. Manual of Cultivated Plants. MacMillan Co., New York.

Munz, P. A. and Keck, D. D. 1965. A California Flora. University of California Press, Berkeley, Calif.

Robbins, W. W., Bellue, M. K., and Ball, W. S. 1970. Weeds of California. Documents and Publications, Sacramento, Calif.

Willis, J. C. 1973. A Dictionary of the Flowering Plants and Ferns. Ed. 8. Cambridge University Press.

Compound names are listed with the primary name first followed by appropriate modifiers, for example,

clover, white New Zealand. Botanical names are grouped by families and include family, genus, species, and occasionally variety, for example, *Gramineae: Zea mays, Hordeum vulgare; Chenopodiaceae: Beta vulgaris; Cruciferae: Brassica oleracea var. capitata.*

Indexes

Four indexes are provided to locate specific citations of interest. They provide alphabetical listings of common plant names, botanical plant names, terms describing treatments, and terms describing results.

Generally, each plant species is listed under one common name. Referrals are provided for a number of synonymous names. Hyphenated names appear alphabetically after the complete listing of nonhyphenated names. Some general terms (for example, cactus and thorns) appear because species were not identified; however, these terms are not all inclusive. Botanical names are listed by genus, species (unless unknown), and, in some cases, variety.

Both the treatment and result indexes include all the terms mentioned in those respective categories. Treatment salts are not identified as such but are listed as the constituent ions. Users are

advised to refer to synonymous and related terms to locate all citations relevant to a particular subject.

Searches

Since the bibliography is stored on tape, customized computer searches can be made readily by authors (for example, to locate co-authors), plant species, or keywords; however, for most users, direct reference to the printed indexes will probably be far more expeditious. As corrections and additions are made to the computer file in the future, computer searches of that data base may be advantageous until an updated printed version becomes available.

Requests for computer searches should be sent to:

USDA-SEA-TIS
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These services will be available on a limited basis, at no charge, to all users; however, this policy is subject to change without notice. Questions regarding costs of frequent or extensive usage should be directed to the attention of the Chief, Technical Information Systems.

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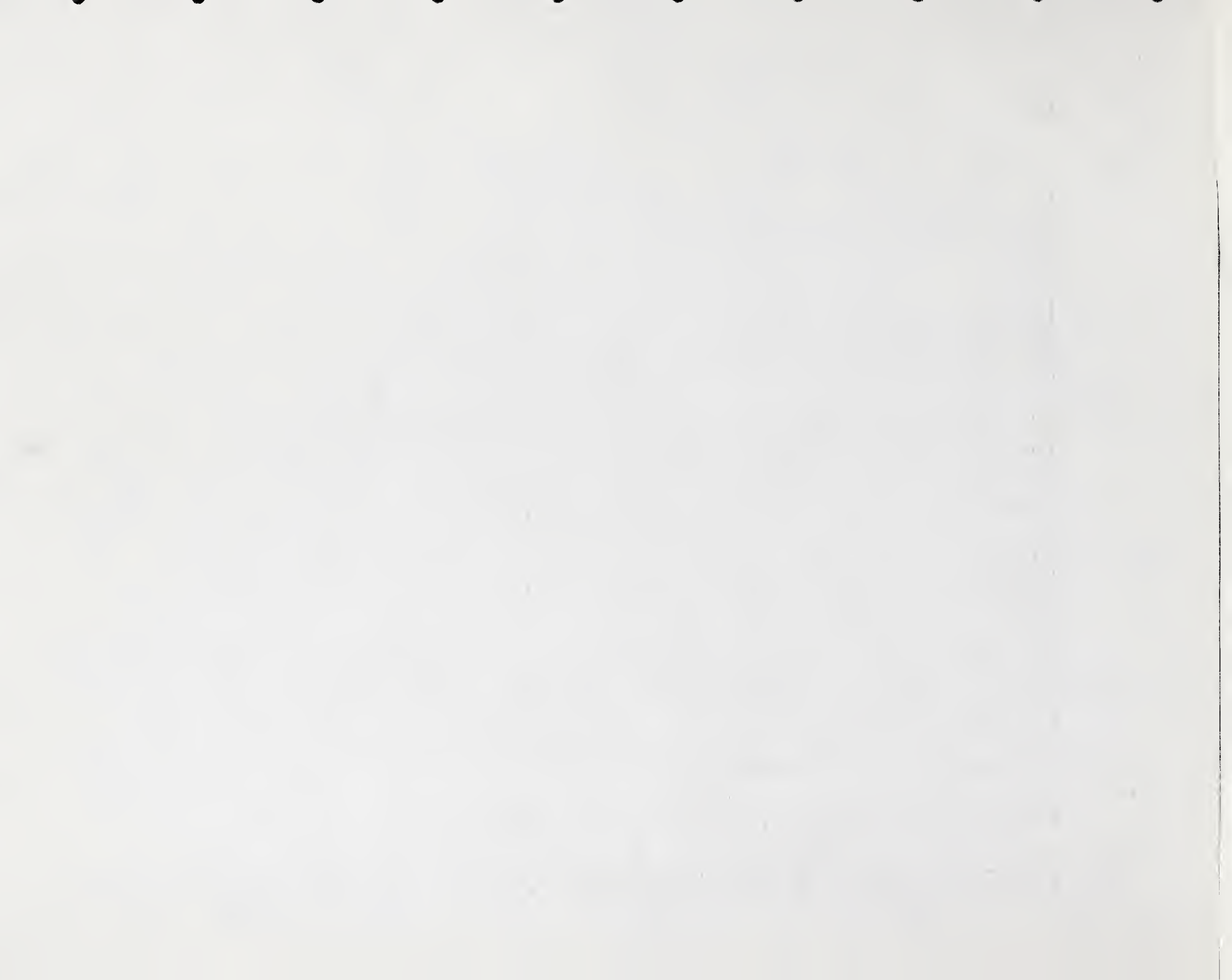
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- POA, PUCCINELLIA LEMMONII, ZEA MAYS, AVENA SATIVA, DISTICHLIS STRICTA, EUCHLOE DACTYLOIDES, PUCCINELLIA DISTANS, PUCCINELLIA AIROIDES, DISTICHLIS SPICATA, SPARTINA GRACILIS, SPOROBOLUS AIROIDES, PHRAGMITES COMMUNIS, MUHLENBERGIA ASPERIFOLIA. SOIL, FIELD SALINE SOIL, ALKALI SOIL, SODIUM, CHLORIDE VEGETATIVE GROWTH
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LEGUMINOSAE: MEDICAGO SATIVA, PISUM SATIVUM, MELILOTUS ALBA, TRIFOLIUM ALEXANDRINUM, VICIA FABA, VICIA VILLOSA, VICIA SATIVA; PUNICACEAE: PUNICA GRANATUM; CRUCIFERAE: BRASSICA OLERACEA, BRASSICA NAPUS, BRASSICA OLERACEA VAR BOTRYTIS, BRASSICA OLERACEA VAR CAPITATA; SALICACEAE: POPULUS FREMONTII; UMBELLIFERAE: APIUM GRAVEOLENS VAR DULCE; LILIACEAE: ASPARAGUS OFFICINALIS; AMARYLLIDACEAE: ALLIUM CEPA; MALVACEAE: GOSSYPIUM HIRSUTUM; LINACEAE: LINUM USITATISSIMUM; CONVULVULACEAE: IPOMOEA BATATAS; SOLANACEAE: SOLANUM TUBEROSUM, SOLANUM MELONGENA; VITACEAE: VITIS VINIFERA; PALMACEAE: PHOENIX DACTYLIFERA, WASHINGTONIA, PHOENIX CANARIENSIS; CASUARINACEAE: CASUARINA; APOCYNACEAE: NERIUM OLEANDER; MYRTACEAE: EUCALYPTUS GLOBULUS, EUCALYPTUS TERETICORNIS, EUCALYPTUS ROSTRATA; PLATANACEAE: PLATANUS ORIENTALIS; MELIACEAE: MELIA AZEDARACH; SAPINDACEAE: KOELREUTERIA; RUTACEAE: CITRUS SINENSIS, CITRUS LIMON; ROSACEAE: PRUNUS DOMESTICA, PRUNUS ARMENIACA, PRUNUS PERSICA, PRUNUS; JUGLANDACEAE: JUGLANS REGIA, ALKALI TOLERANCE, SODIUM TOLERANCE

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- CRATAEGUS OXYACANTHA, PRUNUS AVIUM, PRUNUS SERRULATA; TILIACEAE: TILIA EUCHLORA, TILIA INTERMEDIA, TILIA CORDATA, TILIA EUROPAEA, TILIA TOMENTOSA; ACERACEAE: ACER PSEUDOPLATANUS, ACER PLATANOIDES, ACER SACCHARINUM; FAGACEAE: FAGUS SYLVATICA, QUERCUS ROBUR, QUERCUS PEDUNCULATA, QUERCUS RUBRA; ULMACEAE: ULMUS PUMILA, ULMUS CARPINIFOLIA, ULMUS GLABRA; CORYLACEAE: CARPINUS BETULUS, CORYLUS COLURNA, BETULA PENULA, BETULA VERRUCOSA; HIPPOCASTANACEAE: AESCULUS GLABRA, AESCULUS HIPPOCASTANUM, AESCULUS CARNEA; PLATANACEAE: PLATANUS ACERIFOLIA. SOIL, FIELD DEICING SALT, SODIUM, CHLORIDE SODIUM UPTAKE, CHLORIDE UPTAKE, MINERAL COMPOSITION
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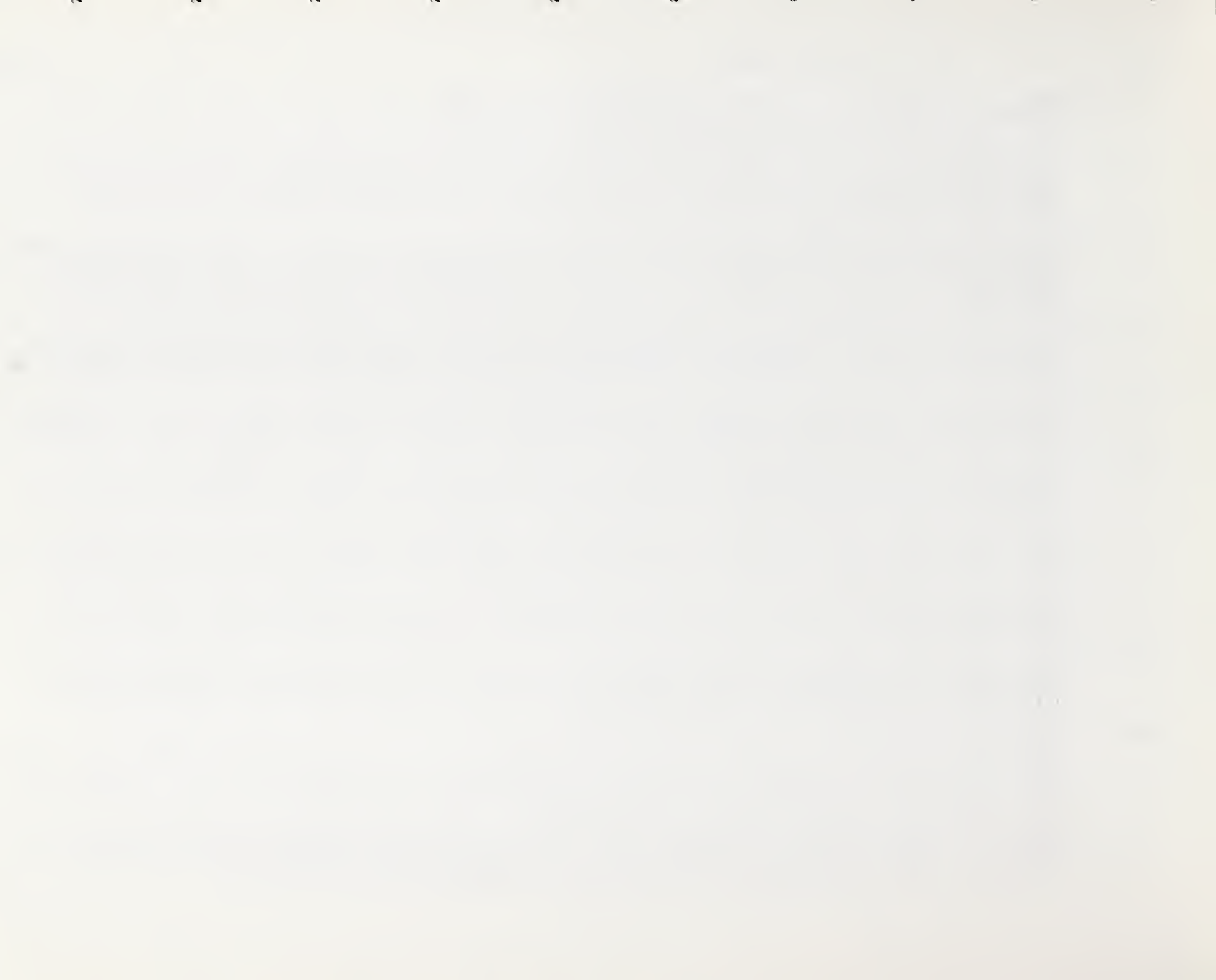
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 LEGUMINOSAE; PISUM SATIVUM, PHASEOLUS VULGARIS, MEDICAGO SATIVA, ONOBRYCHIS VICIIFOLIA, VICIA SATIVA; GRAMINEAE:
 SECALE CEREALE, AVENA SATIVA, TRITICUM AESTIVUM, HORDEUM VULGARE, SORGHUM SUDANENSE, ZEA MAYS; CHENOPODIACEAE: BETA
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- CONFERTIFOLIA, GRAYIA SPINOSA, EUROTIA LANATA, ATRIPLEX; ACAVACEAE; YUCCA; ZYGOPHYLLACEAE LARREA TRIDENTATA;
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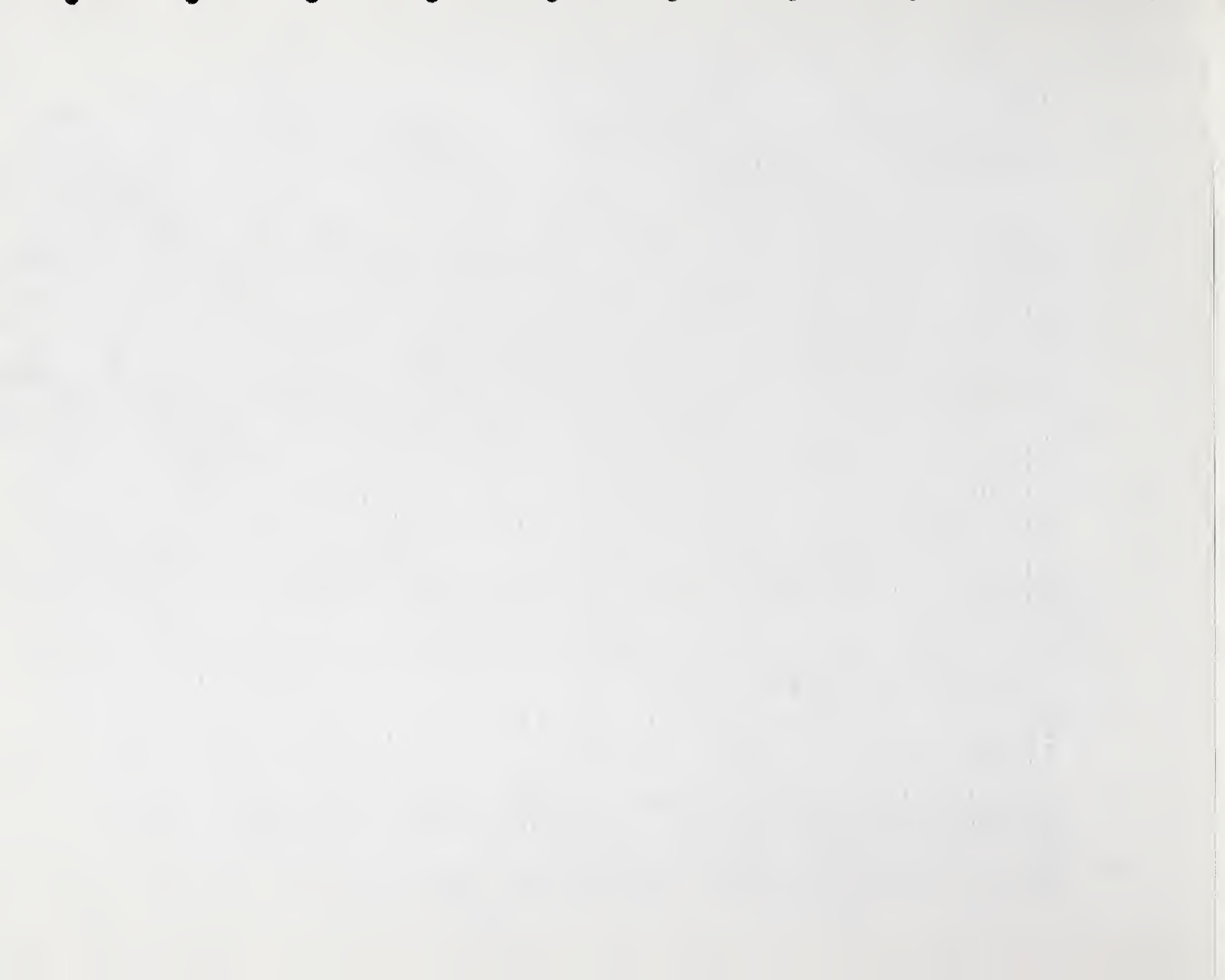


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1527. OGO, T.; HORIE, Y. STUDIES ON THE SALT TOLERANCE IN CROPS. 3. CHLORIDE CONTENT OF LEAF-BLADE IN SALINE CROPS. (JAP: ENG SUM). BULL. SHIMANE AGRIC. COLLEGE 11A: 1-4. 1963. RICE: WHEAT GRAMINEAE: ORYZA SATIVA, TRITICUM AESTIVUM. SODIUM, CHLORIDE LEAF INJURY, CHLORIDE UPTAKE
1528. OGO, T.; MORIWAKI, S. RELATIONSHIP BETWEEN CERTAIN NITROGEN FRACTIONS IN LEAF-BLADE OF CROPS AND SALT TOLERANCE. (JAP: ENG SUM). BULL. SHIMANE AGRIC. COLLEGE 13A: 5-9. 1965. WHEAT: RICE GRAMINEAE: ORYZA SATIVA, TRITICUM AESTIVUM. NITROGEN, GROWTH STAGE, SODIUM, CHLORIDE SALT TOLERANCE, NITROGEN UPTAKE
1529. OGO, T.; NISHIKAWA, S. CHANGES OF LEAF WATER CONTENT IN THE "SALINE" CROPS. (JAP: ENG SUM). PROC. CROP SCI. SOC. JAPAN 28: 211-212. 1959. RICE: WHEAT: BARLEY GRAMINEAE: ORYZA SATIVA, TRITICUM AESTIVUM, HORDEUM VULGARE. SAND SODIUM, CHLORIDE WATER CONTENT
1530. OGO, T.; NISHIKAWA, S. SALINE INJURY ON RICE PLANT CROWN UNDER THE NUTRIENT DEFICIENCIES. (JAP: ENG SUM). BULL. SHIMANE AGRIC. COLLEGE 8A: 1-8. 1960. RICE GRAMINEAE: ORYZA SATIVA. FIELD PLOT, SOIL SODIUM, CHLORIDE, NUTRIENT DEFICIENCY TRANSPIRATION, LEAF INJURY, VEGETATIVE GROWTH
1531. OGO, T.; SASAI, K. STUDIES ON THE SALINE INJURY ON CROPS. I. ON THE EFFECT ON THE GROWTH AND THE DAMAGE ON THE HARVEST OF WHEAT AS PRODUCED BY SALINE IRRIGATION WATER AT DIFFERENT GROWING PERIODS. (JAP: ENG SUM). OKAYAMA PREF. AGRIC. EXPT. STA. BULL. 51: 27-38. 1955. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SOIL GROWTH STAGE, SODIUM, CHLORIDE VEGETATIVE GROWTH
1532. OGO, T.; SASAI, K. STUDIES ON THE SALINE INJURY ON CROPS. I-2. THE EFFECT ON THE GROWTH AND ON THE MATURITY OF WHEAT AS PRODUCED BY THE SALINE WATER IRRIGATION AT THE EAR FORMATION PERIOD. (JAP: ENG SUM). OKAYAMA UNIV. FAC. AGRIC. SCI. REPT. 6: 43-50. 1955. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SODIUM, CHLORIDE VEGETATIVE GROWTH, GRAIN YIELD, SEED WEIGHT
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1534. ONNIS, A.; MANZZANTI, M. ALTHENIA FILIFORMIS PETIT: AZIONE TEMPERATURA E DELL'ACQUA DI MARE SULLA GERMINAZIONE. EFFECTS OF TEMPERATURE AND SEA WATER ON GERMINATION BEHAVIOR OF ALTHENIA FILIFORMIS PETIT. SEEDS. (ITA: ENG SUM). GIORN. BOT. ITAL. 105: 131-143. 1971. ZANNICHELLIACEAE: ALTHENIA FILIFORMIS. WATER CULTURE SEA WATER, SODIUM, CHLORIDE, SEED PRETREATMENT, TEMPERATURE GERMINATION
1535. ONNIS, A.; MICELI, P. PUCCINELLIA FESTUCAEFORMIS (HOST.) PAFL.: DORMIENZA E INFLUENZA DELLA SALINITA SULLA GERMINAZIONE. PUCCINELLIA FESTUCAEFORMIS SEED DORMANCY AND EFFECTS OF SALINITY ON GERMINATION. (ITA: ENG SUM). GIORN. BOT. ITAL. 109: 27-37. 1975. ALKALI GRASS GRAMINEAE: PUCCINELLIA FESTUCAEFORMIS. GERMINATION DISHES SODIUM, CHLORIDE, TEMPERATURE GERMINATION, DORMANCY
1536. OOSTING, H. J. TOLERANCE TO SALT SPRAY OF PLANTS OF COASTAL DUNES. ECOLOGY 26: 85-89. 1945. NATIVE VEGETATION CHENOPODIACEAE: ATRIPLEX ARENARIA, CHENOPODIUM AMBROSIODES; LEGUMINOSAE: STROPHOSTYLES HELVOLA; EUPHORBIACEAE:



- CROTON PUNCTATUS. EUPHORBIA POLYGONIFOLIA; GRAMINEAE: SPARTINA PATENS. UNIOLA PANICULATA. CHLORIS PETRAEA. CYNODON DACTYLON; COMPOSITAE: SOLIDAGO MEXICANA. IVA IMBRICATA. IVA FRUTESCENS. BORRICHIA FRUTESCENS. HETEROOTHECA SUBAXILLARIS. LEPTILON CANADENSE. FIELD. SOIL SALT SPRAY SALT TOLERANCE. LEAF INJURY
1537. OOSTING, H. J.; BILLINGS, W. D. FACTORS AFFECTING VEGETATIONAL ZONATION ON COASTAL DUNES. ECOLOGY 23: 131-142. 1942. NATIVE VEGETATION EUPHORBIA POLYGONIFOLIA. CROTON PUNCTATUS; CHENOPODIACEAE: CHENOPODIUM ANTHELMINTICUM; COMPOSITAE: LEPTILON CANADENSE. SOLIDAGO MEXICANA. HETEROOTHECA SUBAXILLARIS; XYRIDACEAE: XYRIS; LILIACEAE: SMILAX BONA-NOX; GRAMINEAE: UNIOLA PANICULATA. ANDROPOGON LITORALIS. CENCHRUS TRIBULOIDES; SOLANACEAE: PHYSALIS VISCOSA. SOLANUM CAROLINENSE; CRUCIFERAE: CAKILE IDENTULA. LEPIDIUM VIRGINICUM; CHAGRACEAE: OENOTHERA HUMIFUSA; CYPERACEAE: FIMBRISTYLIS CASTANEA; MYRICACEAE: MYRICA CERIFERA; JUNCACEAE: JUNCUS MEGACEPHALUS; VITACEAE: PARTHENOCISSUS QUINQUEFOLIA. FIELD SOIL SALT SPRAY ECOLOGY. VEGETATIVE GROWTH
1538. ORLOVSKII, N. V.; KUPSTOVA, A. M. THE CHIEF CAUSES OF THE TOXIC PHENOMENA FOR PLANTS ON SOILNETS. (RUS; ENG SUM). PEDOLOGY 9: 73-91. 1939. PEA; WHEAT LEGUMINOSAE: PISUM SATIVUM; GRAMINEAE: TRITICUM AESTIVUM. POT. SOIL EXCHANGEABLE SODIUM PERCENTAGE. CALCIUM. CARBONATE. SODIUM TOXICITY
1539. ORTEGA, B. C. ESTUDIO DEL CULTIVO DEL TREFOL FRENTA A TRATAMIENTOS DE ACIDO HUMICO Y SALINIDAD. STUDY OF THE CULTURE OF TREFOL IN RELATION WITH TREATMENTS OF HUMIC ACID AND SALINITY. (SPA. ENG SUM). AN. EDAFOL. AGROBIOL. 30: 905-914. 1971. CLOVER LEGUMINOSAE: TRIFOLIUM TRIFOLIATA. WATER CULTURE CHLORIDE. CALCIUM. SODIUM. SULFATE. MAGNESIUM. HUMIC ACID PROTEIN. MINERAL COMPOSITION
1540. OSAWA, T. EFFECT OF THE AVAILABLE NITROGEN DIFFERENT IN FORMS ON PAK-CHOI. BRASSICA CHINENSIS L. INJURED BY THE SALINITY. FULL. UNIV. OSAKA PREF. SERIES B5: 15-18. 1955. PAK-CHOI CRUCIFERAE: BRASSICA CHINENSIS. POT. SAND. GREENHOUSE SODIUM. CHLORIDE. NITRATE. AMMONIUM VEGETATIVE GROWTH. MINERAL COMPOSITION
1541. OSAWA, T. EFFECT OF THE STAGE OF GROWTH ON THE SALT TOLERANCE OF SOME VEGETABLE CROPS. (JAP; ENG SUM). J. JPN. SOC. HORT. SCI. 35: 291-296. 1966. HORNWORT. JAPANESE; PAK-CHOI; SPINACH; CHARD CERATOPHYLLACEAE: CERATOPHYLLUM; CRUCIFERAE: BRASSICA CHINENSIS; CHENOPODIACEAE: SPINACIA OLERACEA. BETA VULGARIS VAR CICLA. SAND. GREENHOUSE SODIUM. CHLORIDE VEGETATIVE GROWTH. SEEDLING GROWTH. SODIUM UPTAKE. CHLORIDE UPTAKE
1542. OSAWA, T. EFFECTS OF VARIOUS CONCENTRATIONS OF SODIUM CHLORIDE ON THE GROWTH, FLOWERING, FRUIT-BEARING, AND CHEMICAL COMPOSITION OF EGG-PLANTS IN SAND CULTURE. (JAP; ENG SUM). HORT. ASSOC. JAPAN 25: 9-14. 1957. EGGPLANT SOLANACEAE: SOLANUM ESCULENTUM. SAND. GREENHOUSE. POT SODIUM. CHLORIDE VEGETATIVE GROWTH. FLOWERING. FRUIT QUALITY. MINERAL COMPOSITION
1543. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. I. ON FRUIT VEGETABLES. (JAP; ENG SUM). HORT. ASSOC. JAPAN 29: 294-304. 1960. TOMATO; PEPPER; CUCUMBER; BEAN. BROAD: BEAN. SNAP. STRAWBERRY SOLANACEAE: LYCOPERSICON ESCULENTUM. CAPSICUM FRUTESCENS; CUCURBITACEAE: CUCUMIS SATIVUS; LEGUMINOSAE: VICIA FABA. PHASEOLUS VULGARIS; ROSACEAE: FRAGARIA. SAND. GREENHOUSE SODIUM. CHLORIDE SALT TOLERANCE. LEAF INJURY. MINERAL COMPOSITION. CARBOHYDRATE
1544. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. II. ON LEAF VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 48-56. 1961. CABBAGE; SPINACH; CABBAGE. CHINESE. CELERY; ONION; LETTUCE; HORNWORT. JAPANESE CRUCIFERAE: BRASSICA OLERACEA VAR CAPITATA. BRASSICA PEKINENSIS; CHENOPODIACEAE: SPINACIA OLERACEA; COMPOSITAE: LACTUCA SATIVA; UMBELLIFERAE: APIUM GRAVEOLENS VAR DULCE; AMARYLLIDACEAE: ALLIUM CEPA; CERATOPHYLLACEAE: CERATOPHYLLUM. SAND. GREENHOUSE SODIUM. CHLORIDE VEGETATIVE GROWTH. MINERAL COMPOSITION
1545. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. III. ON ROOT VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 161-166. 1961. RADISH; TURNIP; CARROT CRUCIFERAE: RAPHANUS SATIVUS. BRASSICA RAPA; UMBELLIFERAE: DAUCUS CAROTA VAR SATIVA. SAND. GREENHOUSE SODIUM. CHLORIDE VEGETATIVE GROWTH. LEAF INJURY. MINERAL COMPOSITION
1546. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS IN SAND CULTURE. IV. ON THE RELATIVE SALT TOLERANCE AND THE



- SALT INJURY OF VEGETABLE CROPS WITH SPECIAL REFERENCE TO THE MINERAL NUTRITION. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 30: 241-252. 1961. PAK-CHOI; CABBAGE; RADISH; CABBAGE, CHINESE; CELERY; TOMATO; SPINACH; TURNIP; EGGPLANT; ONION; LETTUCE; STRAWBERRY; CARROT; PEPPER; CUCUMBER; PARSLEY; BEAN, BROAD; BEAN, CRUCIFERAE; BRASSICA CHINENSIS, BRASSICA OLERACEA VAR CAPITATA, RAPHANUS SATIVUS, BRASSICA PEKINENSIS, BRASSICA RAPA; COMPOSITAE LACTUCA SATIVA; UMBELLIFERAE; APIUM GRAVEOLENS, PETROSELINUM CRISPUM, DAUCUS CAROTA VAR SATIVA; SOLANACEAE; LYCOPERSICON ESCULENTUM, CAPSICUM FRUTESCENS, SOLANUM MELONGENA; CHENOPODIACEAE; SPINACIA OLERACEA; AMARYLLIDACEAE; ALLIUM CEPA; CUCURBITACEAE; CUCUMIS SATIVUS; LEGUMINOSAE; PHASEOLUS VULGARIS, VICIA FABA. SAND, GREENHOUSE SODIUM, CHLORIDE VEGETATIVE GROWTH, NUTRITION, SALT TOLERANCE
1547. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS WITH SPECIAL REFERENCE TO MINERAL NUTRITION. (JAP; ENG SUM). BULL. UNIV. OSAKA PREF. SERIES B16: 13-57. 1965. EGGPLANT; TOMATO; PEPPER; CUCUMBER; BEAN, BROAD; BEAN, KIDNEY; STRAWBERRY; PAK-CHOI; CABBAGE; SPINACH; CABBAGE, CHINESE; ONION, WELSH; ONION; LETTUCE; HORNWORT, JAPANESE; RADISH; TURNIP; CARROT SOLANACEAE; LYCOPERSICON ESCULENTUM, CAPSICUM FRUTESCENS, SOLANUM MELONGENA; UMBELLIFERAE; DAUCUS CAROTA VAR SATIVA, APIUM GRAVEOLENS VAR DULCE; CUCURBITACEAE; CUCUMIS SATIVUS; COMPOSITAE; LACTUCA SATIVA; LEGUMINOSAE; PHASEOLUS VULGARIS, VICIA FABA; CHENOPODIACEAE; SPINACIA OLERACEA; ROSACEAE; FRAGARIA; AMARYLLIDACEAE; ALLIUM CEPA, ALLIUM FISTULOSUM; CRUCIFERAE; BRASSICA OLERACEA VAR CAPITATA, RAPHANUS SATIVUS, BRASSICA RAPA, BRASSICA CHINENSIS, BRASSICA PEKINENSIS; CERATOPHYLLACEAE; CERATOPHYLLUM. SAND, POT, GREENHOUSE SODIUM, CHLORIDE TOXICITY, MINERAL COMPOSITION
1548. OSAWA, T. STUDIES ON THE SALT TOLERANCE OF VEGETABLE CROPS WITH SPECIAL REFERENCE TO OSMOTIC EFFECTS AND SPECIFIC ION EFFECTS. (JAP; ENG SUM). J. JPN. SOC. HORT. SCI. 32: 211-223. 1963. SPINACH; TURNIP; CELERY; ONION, WELSH; BEAN, KIDNEY; CHARD CHENOPODIACEAE; BETA VULGARIS VAR CICTA, SPINACIA OLERACEA; CRUCIFERAE; BRASSICA RAPA; AMARYLLIDACEAE; ALLIUM FISTULOSUM; LEGUMINOSAE; PHASEOLUS VULGARIS; UMBELLIFERAE; APIUM GRAVEOLENS. SAND, GREENHOUSE SODIUM, CALCIUM, MAGNESIUM, POTASSIUM, CHLORIDE, SULFATE MINERAL COMPOSITION, LEAF INJURY, VEGETATIVE GROWTH
1549. OSAWA, T. STUDIES ON THE SODIUM CHLORIDE INJURY OF VEGETABLE CROPS IN RELATION TO THE FORM OF NITROGEN IN SAND CULTURE. I. ON SOME FRUIT VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 31: 53-63. 1962. TOMATO; CUCUMBER; BEAN, KIDNEY SOLANACEAE; LYCOPERSICON ESCULENTUM; CUCURBITACEAE; CUCUMIS SATIVUS; LEGUMINOSAE; PHASEOLUS VULGARIS. SAND, GREENHOUSE SODIUM, CHLORIDE, AMMONIUM, NITRATE VEGETATIVE GROWTH, LEAF INJURY, SODIUM UPTAKE, CHLORIDE UPTAKE
1550. OSAWA, T. STUDIES ON THE SODIUM CHLORIDE INJURY OF VEGETABLE CROPS IN RELATION TO THE FORM OF NITROGEN IN SAND CULTURE. II. ON SOME LEAF VEGETABLES AND ROOT VEGETABLES. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 31: 157-167. 1962. SPINACH; CABBAGE, CHINESE; CELERY; TURNIP; CARROT CRUCIFERAE; BRASSICA PEKINENSIS, BRASSICA RAPA; CHENOPODIACEAE; SPINACIA OLERACEA; UMBELLIFERAE; DAUCUS CAROTA VAR SATIVA, APIUM GRAVEOLENS. SAND, GREENHOUSE SODIUM, CHLORIDE, AMMONIUM, NITRATE VEGETATIVE GROWTH CHLORIDE UPTAKE, SODIUM UPTAKE
1551. OSAWA, T. STUDIES ON THE SODIUM CHLORIDE INJURY OF VEGETABLE CROPS IN RELATION TO THE FORM OF NITROGEN SUPPLIED AND THE CALCIUM NUTRITION IN SAND CULTURE. (JAP; ENG SUM). JPN. SOC. HORT. SCI. J. 31: 227-234. 1962. SPINACH; CABBAGE, CHINESE CRUCIFERAE; BRASSICA PEKINENSIS; CHENOPODIACEAE; SPINACIA OLERACEA. SAND, GREENHOUSE CALCIUM, NITRATE, AMMONIUM, CHLORIDE, SODIUM MINERAL COMPOSITION
1552. OSMOND, C. B. HALOPHYTES AND ADAPTATION TO SALINITY. PROC. WORKSHOP ON SALT EFFECTS ON PLANT STRUCTURES AND PROCESSES, RIVERSIDE, CALIF. APRIL 1976: 79-80. 1976.
1553. OSMOND, C. B.; GREENWAY, H. SALT RESPONSES OF CARBOXYLATION ENZYMES FROM SPECIES DIFFERING IN SALT TOLERANCE. PLANT PHYSIOL. 49: 260-263. 1972. CORN; BEAN; SALT BUSH GRAMINEAE; ZEA MAYS; LEGUMINOSAE; PHASEOLUS VULGARIS; CHENOPODIACEAE; ATRIPLEX SPONGIOSA, ATRIPLEX NUMMULARIA. SODIUM, CHLORIDE, POTASSIUM, SULFATE, PHOSPHOENOLPYRUVATE CARBOXYLASE, RIBULOSE DISPHOSPHATE CARBOXYLASE ENZYME ACTIVITY
1554. OTA, K.; HAYASHI, H. STUDIES ON THE SALT INJURY TO CROPS. I. EFFECT OF SODIUM CHLORIDE ON THE ROOT DEVELOPMENT OF THE YOUNG WHEAT PLANT. (JAP; ENG SUM). GIFU UNIV. FAC. AGRIC. RES. BULL. 6: 21-27. 1956. WHEAT GRAMINEAE;



TRITICUM AESTIVUM. TEST TUBE. WATER CULTURE SODIUM. CHLORIDE ROOT GROWTH. RESPIRATION. WATER UPTAKE

1555. OTA, K.: HAYASHI, H.: KARIYA, T. STUDIES ON THE SALT INJURY TO CROPS. VII. ON THE RESISTANCE OF WHEAT TO SALT INJURIES UNDER THE VARYING CONCENTRATIONS OF NUTRIENT SOLUTION. (JAP: ENG SUM). GIFU UNIV. FAC. AGRIC. RES. BULL. 5: 31-36. 1955. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SAND SODIUM. CHLORIDE VEGETATIVE GROWTH. SODIUM UPTAKE. CHLORIDE UPTAKE
1556. OTA, K.: OGO, T. FUNDAMENTAL STUDIES ON SALINE INJURY ON WHEAT PLANTS. (JAP). OKAYAMA PREF. AGRIC. EXPT. STA. SPEC. BULL. 49: 17-24. 1954. WHEAT GRAMINEAE: TRITICUM AESTIVUM. SODIUM. CHLORIDE AMYLASE. SUGAR. STARCH. MINERAL COMPOSITION. CHLORIDE UPTAKE
1557. OTA, K.: OGO, T. STUDIES ON THE SALT INJURY IN WHEAT PLANT. I. THE INFLUENCE OF NA CL SOLUTIONS UPON THE GERMINATION AND THE GROWTH OF SEEDLING. (JAP: ENG SUM). CROP SCI. SOC. JAPAN PROC. 22: 77-78. 1953. WHEAT GRAMINEAE: TRITICUM AESTIVUM. WATER CULTURE SODIUM. CHLORIDE. GLUCOSE. SEA WATER GERMINATION. SEEDLING GROWTH. ENZYME ACTIVITY. AMYLASE. PEROXIDASE
1558. OTA, K.: OGO, T.: OMORI, N. STUDIES ON THE SALT INJURY IN CROPS. V. INFLUENCE OF NA CL SOLUTIONS UPON THE GERMINATION IN WHEAT. (JAP: ENG SUM). SCI. REPT. FAC. AGRIC. OKAYAMA UNIV. 2: 28-37. 1953. WHEAT GRAMINEAE: TRITICUM AESTIVUM. WATER CULTURE SODIUM. CHLORIDE. GLUCOSE. SEA WATER ENZYME ACTIVITY. AMYLASE. PEROXIDASE. SEEDLING GROWTH. GERMINATION
1559. OTA, K.: OGO, T.: SASAI, K. STUDIES ON THE SALT INJURY ON CROPS. IX. ON THE INFLUENCES OF THE SALINE IRRIGATION WATER UPON THE SHAPE OF RICE KERNELS. (JAP: ENG SUM). OKAYAMA AGRIC. EXPT. STA. SPEC. BULL. 51: 21-26. 1955. RICE GRAMINEAE: ORYZA SATIVA. SOIL SODIUM. CHLORIDE GRAIN SHAPE
1560. OTA, K.: OGO, T.: SASAI, K. STUDIES ON THE SALT INJURY ON CROPS. VII. RELATION BETWEEN THE METALLIC ELEMENTS METABOLISM OF WHEAT AND THE SALT INJURY. (JAP: ENG SUM). SCI. REPT. FAC. AGRIC. OKAYAMA UNIV. 4: 1-6. 1954. WHEAT GRAMINEAE: TRITICUM AESTIVUM. WATER CULTURE SODIUM. CHLORIDE MINERAL COMPOSITION
1561. OTA, K.: YASUE, T. STUDIES ON SALT INJURY TO CROPS. XII. THE EFFECT OF SODIUM CHLORIDE SOLUTION ON THE GERMINATION FORCE OF PADDY RICE SEEDS. (JAP: ENG SUM). PROC. CROP SCI. SOC. JAPAN 27: 223-225. 1958. RICE GRAMINEAE: ORYZA SATIVA. GERMINATION DISHES. WATER CULTURE SODIUM. CHLORIDE. VARIETY GERMINATION
1562. OTA, K.: YASUE, T. STUDIES ON SALT INJURY TO CROPS. XIV. RELATION BETWEEN THE TEMPERATURE AND SALT INJURY IN PADDY RICE. PROC. CROP SCI. SOC. JAPAN 28: 33-34. 1959. RICE GRAMINEAE: ORYZA SATIVA. GREENHOUSE. POT TEMPERATURE. SODIUM. CHLORIDE TRANSPIRATION. SALT TOLERANCE
1563. OTA, K.: YASUE, T. STUDIES ON THE SALT INJURY TO CROPS. XI. THE DIFFERENCES OF THE SALT RESISTANCE IN THE YOUNG WHEAT VARIETIES. (JAP: ENG SUM). GIFU. IMP. COLL. AGRIC. RES. BULL. 8: 14-22. 1957. WHEAT GRAMINEAE: TRITICUM AESTIVUM. GERMINATION DISHES SODIUM. CHLORIDE. VARIETY GERMINATION. SALT TOLERANCE. SEEDLING GROWTH
1564. OTA, K.: YASUE, T.: IWATSUKU, M. STUDIES ON THE SALT INJURY TO CROPS. X. RELATIONS BETWEEN THE SALT INJURY AND THE POLLEN GERMINATION IN RICE. (JAP: ENG SUM). GIFU UNIV. FAC. AGRIC. RES. BULL. 7: 15-20. 1956. RICE GRAMINEAE: ORYZA SATIVA. POT. WATER CULTURE SODIUM. CHLORIDE GERMINATION. VEGETATIVE GROWTH
1565. OTA, K.: YASUE, T.: NAKAGAWA, M. STUDIES ON THE SALT INJURY TO CROPS. XIII. THE VARIETAL DIFFERENCES OF THE SALT RESISTANCE IN GERMINATION AND SEEDLING GROWTH OF RICE PLANT. (JAP: ENG SUM). GIFU. UNIV. FAC. AGRIC. RES. BULL. 9: 7-11. 1958. RICE GRAMINEAE: ORYZA SATIVA. GERMINATION DISHES. FIELD PLOT. SOIL SODIUM. CHLORIDE. VARIETY GERMINATION. SEEDLING GROWTH. SALT TOLERANCE
1566. OTA, T. INCREASING TOLERANCE OF KIDNEY BEAN PLANT TO TOXIC LEVELS OF SODIUM CHLORIDE AND AMMONIUM SULFATE THROUGH APPLICATION OF B995. PLANT CELL PHYSIOL. 5: 255-258. 1964. BEAN. KIDNEY LEGUMINOSAE PHASEOLUS VULGARIS. SOIL. POT B 995. SODIUM. CHLORIDE. AMMONIUM. SULFATE VEGETATIVE GROWTH. SALT TOLERANCE



1567. OWEN, P. C. THE RELATION OF GERMINATION OF WHEAT TO WATER POTENTIAL. J. EXPT. BOT. 3: 188-203. 1952. WHEAT GRAMINEAE: TRITICUM AESTIVUM. GROWTH CHAMBER. SOIL WATER STRESS. TEMPERATURE. SODIUM. CHLORIDE. HUMIDITY GERMINATION. WATER CONTENT
1568. OZEROV, G. C. THE SALT RESISTANT OLIVES. (RUS). DOK. AKAD. NAUK. SSSR 72: 409. 1950. OLIVE OLEACEAE: OLEA EUROPAEA. SOIL SALINE SOIL SALT TOLERANCE
1569. OZTAN, B.; DINCER, D. RICE GROWING FOR RECLAMATION OF SALT AND SODIUM AFFECTED SOILS IN THE CUKUROVA PLAIN. IN SALINITY PROBLEMS IN THE ARID ZONES. PROC. TEHERAN SYMP. ARID ZONE RES. 14: 291-294. UNESCO, PARIS. 1961. RICE GRAMINEAE: ORYZA SATIVA. FIELD PLOT. SOIL SALINE SOIL. ALKALI SOIL. LEACHING. GYPSUM RECLAMATION. EXCHANGEABLE SODIUM PERCENTAGE
1570. PAJANISSAMY, N.; MOSI, A. D. STUDIES ON SALINE IRRIGATION WATERS: 1. INFLUENCE ON GROWTH YIELD AND COMPOSITION OF RICE (ORYZA SATIVA L.) VAR. PADMA. MADRAS AGRIC. J. 60: 799-803. 1973. RICE GRAMINEAE: ORYZA SATIVA. POT. SOIL SODIUM ADSORPTION RATIO VEGETATIVE GROWTH. MINERAL COMPOSITION
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- COMPOSITAE: LACTUCA SATIVA; AMARYLLIDACEAE: ALLIUM CEPA; CHENOPODIACEAE: SPINACIA OLERACEA, BETA VULGARIS;
SOLANACEAE: SOLANUM TUBEROSUM, CAPSICUM FRUTESCENS, NICOTIANA TABACUM, LYCOPERSICON ESCULENTUM. POT. GREENHOUSE,
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SOIL SODIUM, SULFATE, CHLORIDE SULFUR METABOLISM, HYDROGEN SULFIDE FORMATION

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1929. SHIMOSE, N. PHYSIOLOGY OF SALT INJURY IN CROPS. 4. SALT TOLERANCE IN TOMATO AND TOBACCO PLANTS. (JAP). J. SCI. SOIL TOKYO 35: 143-147. 1964. TOMATO; TOBACCO SOLANACEAE: LYCOPERSICON ESCULENTUM, NICOTIANA TABACUM. SODIUM, SULFATE, CHLORIDE, BICARBONATE SALT TOLERANCE, VEGETATIVE GROWTH, MINERAL COMPOSITION
1930. SHIMOSE, N. PHYSIOLOGY OF SALT INJURY IN CROPS. 5. RICE PLANTS GROWN IN POTASSIUM AND CALCIUM DEFICIENT SOLUTIONS AND IN SOLUTIONS WITH EXCESSIVE AMOUNTS OF SODIUM CHLORIDE OR SULFATE. (JAP). J. SCI. SOIL TOKYO 35: 148-151. 1964. RICE GRAMINEAE: ORYZA SATIVA. WATER CULTURE POTASSIUM, NUTRITENT DEFICIENCY, CALCIUM, SODIUM, CHLORIDE, SULFATE MINERAL COMPOSITION, VEGETATIVE GROWTH
1931. SHIMOSE, N. PHYSIOLOGY OF SALT INJURY IN CROPS. 7. SALT TOLERANCE OF ONION, CELERY, SPINACH, CUCUMBER AND KIDNEY BEAN. (JAP). J. SCI. SOIL MANURE TOKYO 39: 548-553. 1968. ONION; CELERY; SPINACH; CUCUMBER; BEAN, KIDNEY UMBELLIFERAE: APIUM GRAVEOLENS; AMARYLLIDACEAE: ALLIUM CEPA; CHENOPODIACEAE: SPINACIA OLERACEA; CUCURBITACEAE: CUCUMIS SATIVUS; LEGUMINOSAE: PHASEOLUS VULGARIS. SULFATE, CHLORIDE SALT TOLERANCE, VEGETATIVE GROWTH, MINERAL COMPOSITION
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1936. SHIMOSE, N. STUDIES ON THE PHYSIOLOGY OF SALT INJURY. 1. THE EFFECTS OF THE GROWTH AND THE ABSORPTION OF MINERAL ELEMENTS IN RICE BY THE ISOTONIC SOLUTION OF SODIUM CHLORIDE AND SODIUM SULFATE. J. SOIL FERT., JAPAN 34: 107-110. 1963. RICE GRAMINEAE: ORYZA SATIVA. WATER CULTURE SODIUM, CHLORIDE, SULFATE VEGETATIVE GROWTH, MINERAL COMPOSITION
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FRUIT SIZE, EMERGENCE

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SOLANACEAE: LYCOPERSICON ESCULENTUM, CAPSICUM ANNUUM; CUCURBITACEAE: CUCUMIS SATIVUS, CUCUMIS MELO; AMARYLLIDACEAE:
ALLIUM CEPA. FIELD, SOIL IRRIGATION METHOD EMERGENCE, CHLORIDE UPTAKE
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PATHWAYS. PHYSIOL. PLANT. 29: 190-193. 1973. CORN; RHODES GRASS GRAMINEAE: ZEA MAYS, CHLORIS GAYANA,
AELUROPOUS LIITORALIS. GROWTH CHAMBER, WATER CULTURE SODIUM, CHLORIDE CARBON FIXATION, ENZYME ACTIVITY
1948. SHORTLE, W. C.; KOTHEIMER, J. B.; RICH, A. E. EFFECT OF SALT INJURY ON SHOOT GROWTH OF SUGAR MAPLE, ACER SACCHARUM.
PLANT DIS. REP. 56: 1004-1007. 1972. MAPLE, SUGAR ACERACEAE: ACER SACCHARUM. FIELD, SOIL DEICING SALT,
SODIUM, CHLORIDE SEEDLING GROWTH, CHLORIDE UPTAKE
1949. SHORTLE, W. C.; RICH, A. E. RELATIVE SODIUM CHLORIDE TOLERANCE OF COMMON ROADSIDE TREES IN SOUTHEASTERN NEW HAMPSHIRE.
PLANT DIS. REP. 54: 360-362. 1970. OAK, RED; OAK, WHITE; CEDAR, RED; LOCUST, BLACK; ASPEN, QUAKING; BIRCH, BLACK;
BIRCH, PAPER; BIRCH, GRAY; BIRCH, YELLOW; CHERRY, BLACK; ASH, WHITE; ASPEN, LARGE TOOTHED, BASSWOOD; HICKORY,
SHAGBARK; ELM, AMERICAN; MAPLE, RED; PINE, WHITE; IRONWOOD; HEMLOCK; MAPLE, SUGAR; ALDER, SPECKLED; PINE, RED
FAGACEAE: QUERCUS RUBRA, QUERCUS ALBA; ULMACEAE: ULMUS AMERICANA; OLEACEAE: FRAXINUS AMERICANA; BETULACEAE: BETULA
LENTA, BETULA PAPYRIFERA, BETULA POPULIFOLIA, BETULA ALLEGHANIENSIS, ALNUS RUCOSA; PINACEAE: PINUS STROBUS, PINUS
RESINOSA, TSUGA CANADENSIS; TILIACEAE: TILIA AMERICANA; SALICACEAE: POPULUS TREMULOIDES, POPULUS GRANDIDENTATA;
LEGUMINOSAE: ROBINIA PSEUDOACACIA; CUPRESSACEAE: JUNIPERUS VIRGINIANA; CARPINACEAE: CARPINUS CAROLINIANA; ROSACEAE:
PRUNUS SEROTINA; ACERACEAE: ACER RUBRUM, ACER SACCHARUM; JUGLANDACEAE: CARYA OVATA. FIELD, SOIL SODIUM,
CHLORIDE LEAF INJURY, SALT TOLERANCE
1950. SHOURBAGY, N. E.; WALLACE, A. SODIUM ACCUMULATION AND SODIUM RESPONSES OF FIVE VARIETIES OF BARLEY. AGRON. J. 57:
449-450. 1965. BARLEY GRAMINEAE: HORDEUM VULGARE. WATER CULTURE, TEST TUBE VARIETY, SODIUM SODIUM UPTAKE
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III: 75-78. 1923. WHEAT GRAMINEAE: TRITICUM AESTIVUM. FIELD, SOIL VARIETY, ALKALINE SOIL VEGETATIVE
GROWTH, SALT TOLERANCE
1952. SID KO, A. A. SALT TOXICITY LIMIT AND EFFECTIVE DEPTH OF SOIL DESALINIZATION BY FUNDAMENTAL LEACHING. SOVIET SOIL
SCI. 4: 508. 1970. COTTON MALVACEAE: GOSSYPIMUM. SOIL, FIELD LEACHING, SALINE SOIL, OSMOTIC PRESSURE
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BROMELIACEAE: ANANAS COMOSUS. FIELD, SOIL SALT SPRAY LEAF INJURY, ECOLOGY, VEGETATIVE GROWTH
1954. SIDERIS, C. P.; KRAUSS, B. H.; MAUNAGA, E. THE EFFECT OF THE SALT CONCENTRATION OF THE CULTURE SOLUTION ON THE GROWTH
AND COMPOSITION OF PINEAPPLE PLANTS. AMER. J. BOT. 15: 353-371. 1928. PINEAPPLE BROMELIACEAE: ANANAS COMOSUS.
POT. WATER CULTURE POTASSIUM, NITRATE, MAGNESIUM, CALCIUM, SULFATE VEGETATIVE GROWTH, MINERAL COMPOSITION
1955. SIDERIS, C. P.; YOUNG, H. Y. EFFECT OF CHLORIDES ON THE METABOLISM OF PINEAPPLE PLANTS. AMER. J. BOT. 41: 847-854.
1954. PINEAPPLE BROMELIACEAE: ANANAS COMOSUS. WATER CULTURE, POT CHLORIDE, CALCIUM, POTASSIUM, SULFATE
VEGETATIVE GROWTH, CHLORIDE UPTAKE, FRUIT QUALITY
1956. SIEGEL, S. M.; GIUMARRO, C.; DALY, O. W. MICRO-AEROBIC CAPABILITIES IN LAND PLANTS: OBSERVATIONS ON SURVIVAL AND

Date	Description	Debit	Credit
1890			
Jan 1	Balance		100.00
Jan 15	Wages	50.00	
Jan 30	Expenses	20.00	
Feb 15	Income		75.00
Feb 28	Expenses	15.00	
Mar 15	Wages	40.00	
Mar 31	Income		60.00
Apr 15	Expenses	10.00	
Apr 30	Wages	30.00	
May 15	Income		50.00
May 31	Expenses	8.00	
Jun 15	Wages	25.00	
Jun 30	Income		40.00
Jul 15	Expenses	6.00	
Jul 31	Wages	20.00	
Aug 15	Income		30.00
Aug 31	Expenses	4.00	
Sep 15	Wages	15.00	
Sep 30	Income		25.00
Oct 15	Expenses	3.00	
Oct 31	Wages	10.00	
Nov 15	Income		15.00
Nov 30	Expenses	2.00	
Dec 15	Wages	5.00	
Dec 31	Income		10.00
Total		300.00	300.00

- GROWTH OF PLANTS SUBMERGED IN FRESH AND SALINE WATERS. NATURE 209: 1330-1334, 1966. BEET; CUCUMBER; MARIGOLD; RYE; RICE; BARLEY; BEAN; LETTUCE; SPURGE; HEDGE CACTUS; GROUNDSEL; COLEUS; IVY. ENGLISH EUPHORBIACEAE: EUPHORBIA HERMENTIANA. EUPHORBIA XYLOPHYLLOIDES; ARALIACEAE: HEDERA HELIX; CACTACEAE: CEREUS PERUVIANUS; CRASSULACEAE: COTYLEDON; LILIACEAE: GASTERIA HYBRIDA; LABIATAE: COLEUS BLUMEI; COMPOSITAE: SENECIO GREGORII, LACTUCA SATIVA, TAGETES; CHENOPODIACEAE: BETA VULGARIS; GRAMINEAE: SECALE CEREALE, ORYZA SATIVA, HORDEUM VULGARE; LEGUMINOSAE: PHASEOLUS VULGARIS; CUCURBITACEAE: CUCUMIS SATIVUS. WATER CULTURE SODIUM, CHLORIDE GERMINATION, VEGETATIVE GROWTH
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1958. SILKIN, L. Y. INFLUENCE OF SH AND SS GROUPS ON THE SALT RESISTANCE OF PLANTS. SOVIET PLANT PHYSIOL. 12: 91-93, 1965. BEAN LEGUMINOSAE: PHASEOLUS VULGARIS. SOIL CHLORIDE, SODIUM SULFHYDRYL GROUP, DISULFIDE GROUP
1959. SIMONNEAU, P. ESSAI SUR LA VEGETATION HALOPHILE. AN EXPERIMENT ON HALOPHILOUS VEGETATION. (FRE; ENG SUM). IN: SALINITY PROBLEMS IN THE ARID ZONES. PROC. TEHRAN SYMP. ARID ZONE RES. UNESCO, PARIS, 14: 135-138, 1961. GLASSWORT; SAMPHIRE; PICKLEWEED; SEA BLITE; SALT BUSH; RUSH; REED; BEAN-CAPER CHENOPODIACEAE: ARTHROCNEMUM GLAUCUM, SALICORNIA FRUTICOSA, SALICORNIA HERBACEA, SUAEDA FRUTICOSA, SUAEDA MOLLIS, SUAEDA MONODIANA, ATRIPLEX HASTATA, ATRIPLEX MAURITANICA, ATRIPLEX HALIMUS, SALSOLA VERMICULATA, SALSOLA FOETIDA, HALOCNEMUM STROBILACEUM, HALOPEPLIS AMPLEXICAULIS; ZYGOPHYLLACEAE: ZYGOPHYLLUM ALBUM; JUNCACEAE: JUNCUS SUBULATUS; GRAMINEAE: PHRAGMITES COMMUNIS, AELUROPS LITTORALIS. FIELD, SOIL LEACHING, DRAINAGE ECOLOGY, RECLAMATION
1960. SIMONNEAU, P. INFLUENCE DE LA SALINITE SUR LES PLANTES ET LES CULTURES EN AFRIQUE DU NORD. THE EFFECT OF SALINITY ON PLANTS AND CROPS IN NORTH AFRICA. (FRE). RAPPORTS DU SOL ET DE LA VEGETATION. PREMIER COLLOQ. SOC. BOT. FR. 1959: 140-149, 1960. NATIVE VEGETATION; RICE; COTTON; ALFALFA; ARTICHOKE GRAMINEAE: ORYZA SATIVA; MALVACEAE: GOSSYPIUM; LEGUMINOSAE: MEDICAGO SATIVA; COMPOSITAE: CYNARA SCOLYMUS. SOIL, FIELD SALINE SOIL, SODIUM, CHLORIDE ECOLOGY
1961. SIMONNEAU, P. NOTE SUR LA RESISTANCE AU SEL DE QUELQUES PLANTES CULTIVEES; OBSERVATIONS FAITES DANS LES TERRAINS SALES DES PLAINES SUB-LITTORALES D'ORANIE. NOTES ON THE RESISTANCE TO SALT OF SEVERAL CULTIVATED CROPS; OBSERVATIONS MADE IN SALINE TERRAIN AND SUBCOASTAL PLAINS OF ORANIE. (FRE). REVUE FRANCAISE DE L'ORANGER, CASABLANCA 229: 319-322, 1951. WHEAT; BARLEY; OATS; CORN; BERMUDA GRASS; RABBIT FOOT GRASS; ALFALFA; CLOVER, SWEET; CLOVER; PEA; BEAN; COTTON; POTATO; TOMATO; CARROT; ONION; PEPPER; SQUASH; MUSKMELON; ARTICHOKE; CABBAGE; APPLE; OLIVE; POMEGRANATE GRAMINEAE: HORDEUM VULGARE, ZEA MAYS, FESTUCA ARUNDINACEA, CYNOLON DACTYLON, POLYPOGON MONSPELIENSIS, TRITICUM AESTIVUM, AVENA SATIVA; LEGUMINOSAE: MEDICAGO SATIVA, PHASEOLUS VULGARIS, MELILOIUS, TRIFOLIUM, PISUM SATIVUM; SOLANACEAE: SOLANUM TUBEROSUM, LYCOPERSICON ESCULENTUM, CAPSICUM FRUTESCENS; MALVACEAE: GOSSYPIUM; ROSACEAE: MALUS; OLEACEAE: OLEA EUROPAEA; CUCURBITACEAE: CUCURBITA, CUCUMIS; COMPOSITAE: CYNARA SCOLYMUS; UMBELLIFERAE: DAUCUS CAROTA VAR SATIVA; AMARYLLIDACEAE: ALLIUM CEPA; PUNICACEAE: PUNICA GRANATUM; CRUCIFERAE: BRASSICA OLEACEA VAR CAPITATA. FIELD, SOIL SALINE SOIL, SODIUM, CHLORIDE SALT TOLERANCE, ECOLOGY
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1963. SIMONNEAU, P.; AUBERT, G. L'UTILISATION DES EAUX SALEES AU SAHARA. UTILIZATION OF SALINE WATERS IN THE SAHARA. (FRE; ENG SUM). ANN. AGRON. PARIS 14: 859-872, 1963. DATE PALM; CITRUS; COTTON; ALFALFA; CLOVER, SWEET; ASPARAGUS; BEET, BEEK; RADISH; STRAWBERRY; BEAN MALVACEAE: GOSSYPIUM; LEGUMINOSAE: MEDICAGO SATIVA, PHASEOLUS VULGARIS, MELILOIUS ALBA; PALMACEAE: PHOENIX DACTYLIFERA, LILIACEAE: ASPARAGUS OFFICINALIS; CRUCIFERAE: RAPHANUS SATIVUS; CHENOPODIACEAE: BETA VULGARIS; ROSACEAE: FRAGARIA; RUTACEAE: CITRUS; AMARYLLIDACEAE: ALLIUM CEPA. FIELD, SOIL SODIUM, VARIETY, BRACKISH WATER SALT TOLERANCE
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RUBIACEAE: DIODIA TERES; EUPHORBIACEAE: EUPHORBIA POLYGONIFOLIA, CROTON PUNCTATUS; COMPOSITAE: HETEROTHECA SUBAXILLARIS, IVA IMBRICATA, ERIGERON CANADENSIS, SOLIDAGO SEMPERVIRENS, LEGUMINOSAE: STROPHOSTYLES HELVOLA; PLUMBAGINACEAE: LIMONIUM CAROLINIANUM; UMBELLIFERAE: HYDROCOTYLE BONARIENSIS; SOLANACEAE: PHYSALIS VISCOSA; CRUCIFERAE: CAKILE EDENTULA; AGAVACEAE: YUCCA ALOIFOLIA; CHENOPODIACEAE: SALSOLA KALI, ATRIPLEX PATULA; LILIACEAE: SMILAX BONA-NOX. SAND, SOIL, FIELD SALT SPRAY ECOLOGY

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ATRIPLEX SEMIBACCATA, ATRIPLEX VESICARIA; CORNACEAE: CORNUS ALBA, CORNUS ALBA "KESSELRINGII", CORNUS ALBA "SIBIRICA", CORNUS ALBA "SPAETHII", CORNUS AMOMUM, CORNUS MAS, CORNUS SANGUINEA, CORNUS STOLONIFERA, CORNUS STOLONIFERA "FLAVIRAMEA"; CORYLACEAE: ALNUS GLUTINOSA, ALNUS HIRSUTA, ALNUS INCANA, ALNUS RUGOSA, BETULA HUMILIS, BETULA ALLEGANIENSIS, BETULA KIRGHISORUM, BETULA LENTA, BETULA PENDULA, BETULA POPYRIFERA, BETULA POPULIFOLIA, BETULA PUBESCENS, CARPINUS CAROLINIANA, CORYLUS AMERICANA, CORYLUS CORNUTA; CUPRESSACEAE: CHAMAECYPARIS PISIFERA, JUNIPERUS CHINENSIS "PFITZERANA", JUNIPERUS HORIZONTALIS "FLUMOSA", JUNIPERUS VIRGINIANA, THUJA OCCIDENTALIS; ELAEAGNACEAE: ELAEAGNUS ANGUSTIFOLIA, ELAEAGNUS X EBBINGEI, ELAEAGNUS UNBELLATA, HIPPOPHAE RHAMNOIDES, SHEPHERDIA ARGENTEA; FAGACEAE: QUERCUS ALBA, QUERCUS BICOLOR, QUERCUS MACROCARPA, QUERCUS MUEHLENBERGII, QUERCUS PALUSTRIS, QUERCUS RUBRA; HIPPOCASTANACEAE: AESCULUS HIPPOCASTANUM; JUGLANDACEAE: CARYA CVATA, JUGLANS NIGRA;

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- BEAN LEGUMINOSAE: PHASEOLUS. GREENHOUSE SALT SPRAY. SODIUM. CHLORIDE LEAF INJURY. SODIUM UPTAKE, CHLORIDE UPTAKE
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2099. SYED, M. M.; EL-SWAIFY, S. A. EFFECT OF SALINE WATER IRRIGATION ON N. CO. 310 AND H50-7209 CULTIVARS OF SUGAR-CANE. I. GROWTH PARAMETERS. TROP. AGRIC. (TRINIDAD) 49: 337-346. 1972. SUGARCANE. GRAMINEAE: SACCHARUM OFFICINARUM. SOIL, POT. VARIETY, SODIUM, CHLORIDE, SULFATE, SEA WATER. OSMOTIC POTENTIAL, SALT TOLERANCE
2100. SYED, M. M.; EL-SWAIFY, S. A. EFFECT OF SALINE WATER IRRIGATION ON N. CO. 310 AND H50-7209 CULTIVARS OF SUGAR-CANE. II. CHEMICAL COMPOSITION OF PLANTS. TROP. AGRIC. (TRINIDAD) 50: 45-51. 1973. SUGARCANE. GRAMINEAE: SACCHARUM OFFICINARUM. SOIL, POT. VARIETY, SODIUM, CHLORIDE, SULFATE, SEA WATER. SODIUM UPTAKE, POTASSIUM UPTAKE, CALCIUM UPTAKE, MINERAL COMPOSITION
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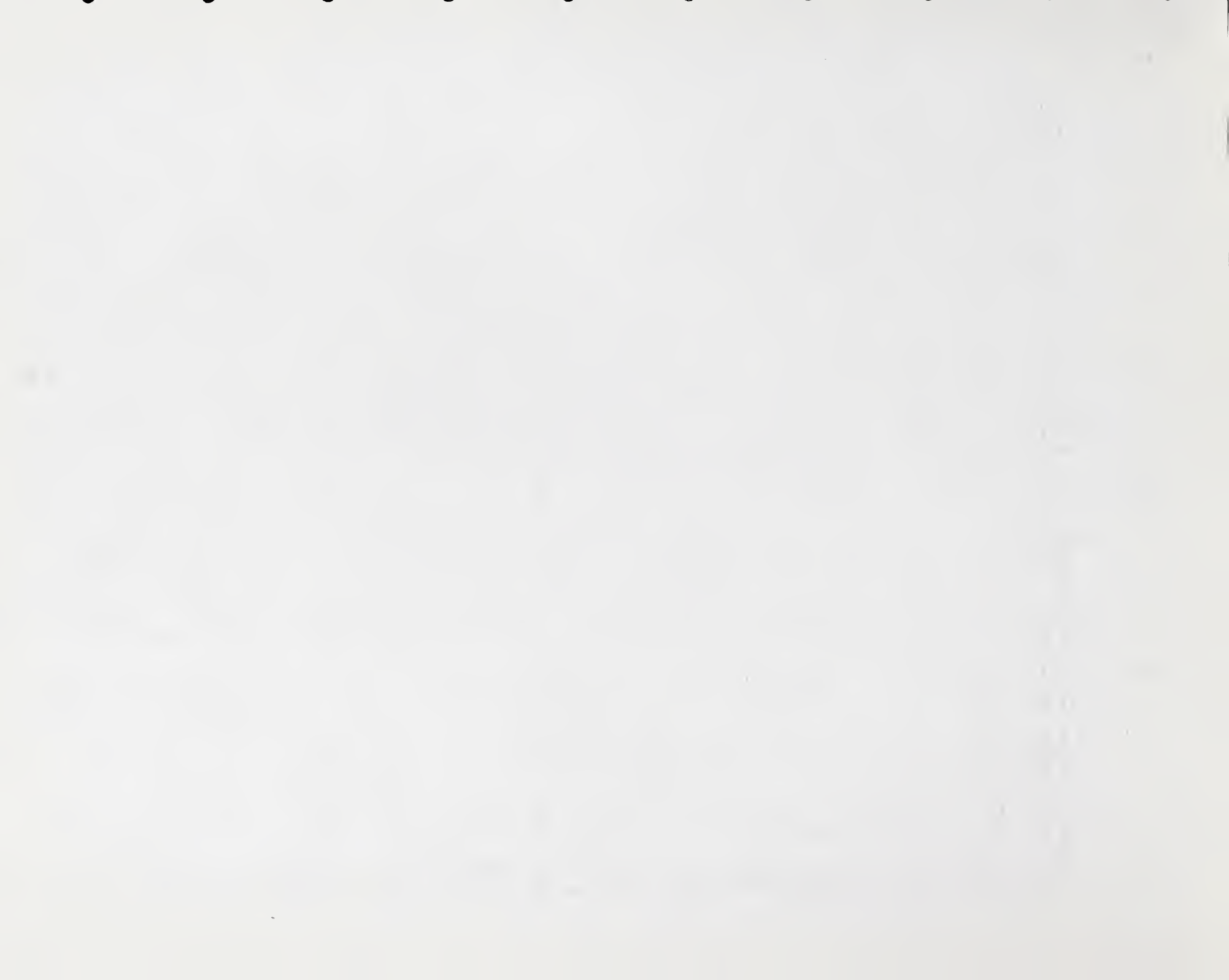
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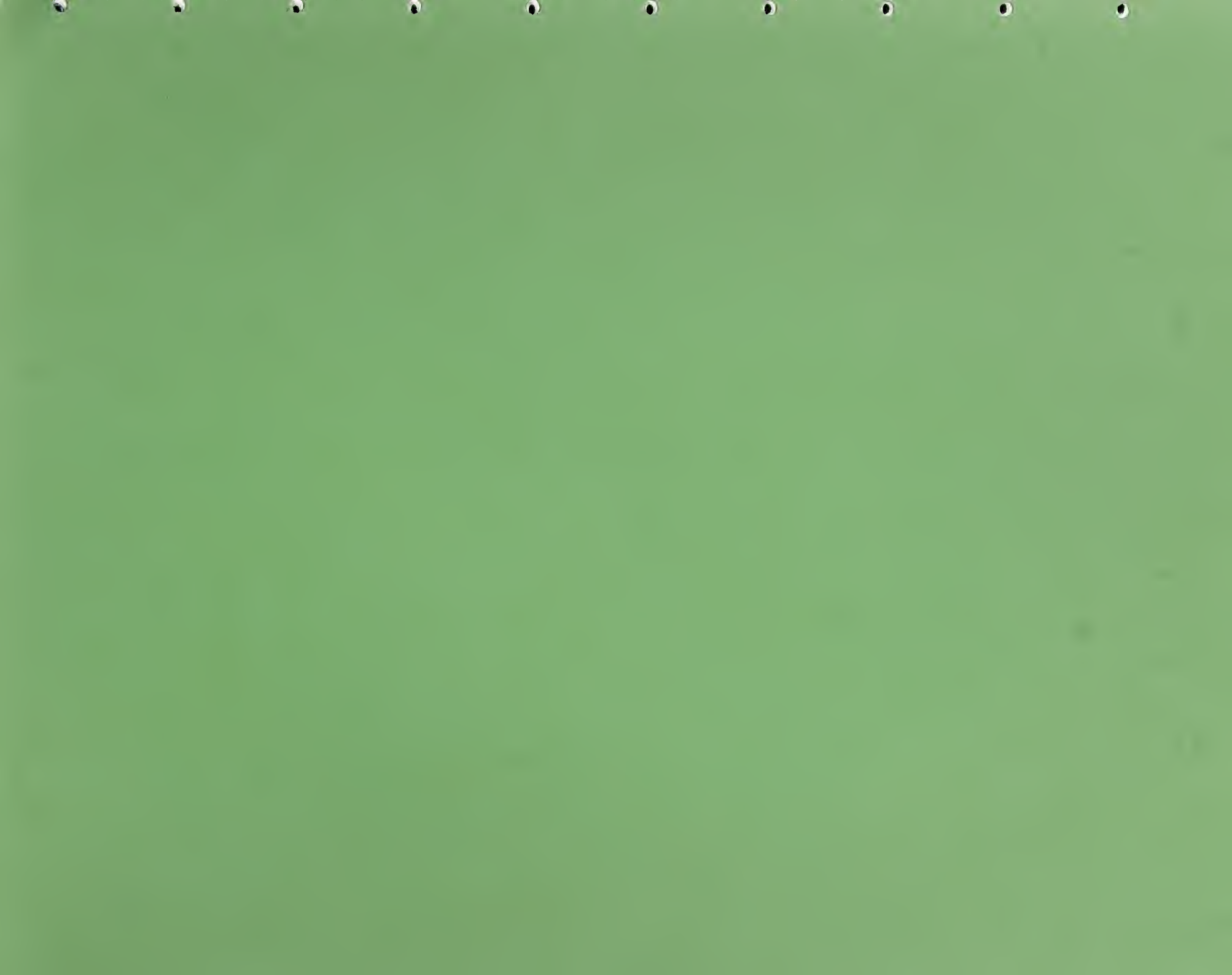
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1956. LIME. SWEET: ORANGE. SOUR RUTACEAE: CITRUS AURANTIUM. CITRUS AURANTIIFOLIA. POT. SAND SULFATE.
SODIUM. ROOTSTOCK VEGETATIVE GROWTH. ROOT GROWTH. MINERAL COMPOSITION







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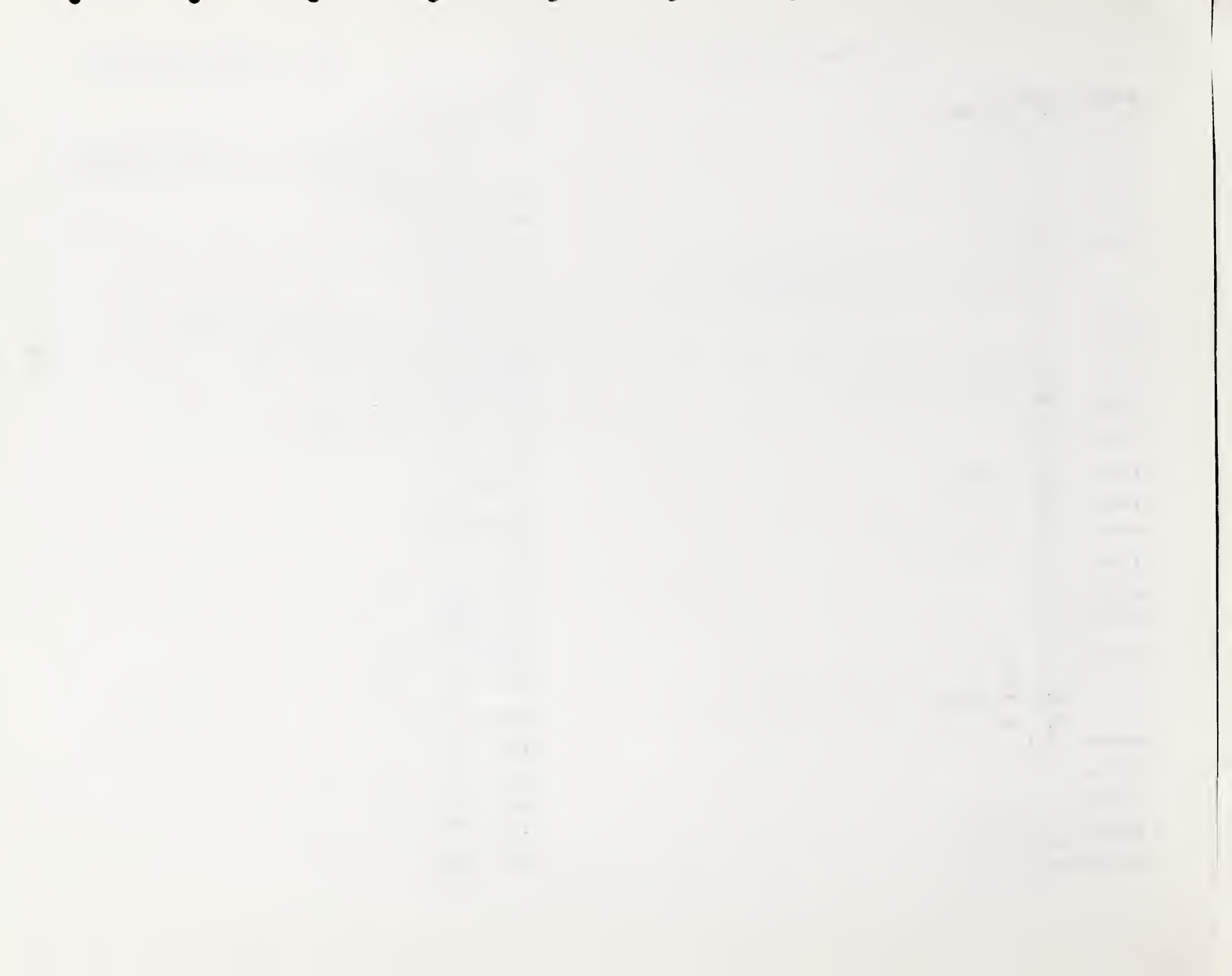
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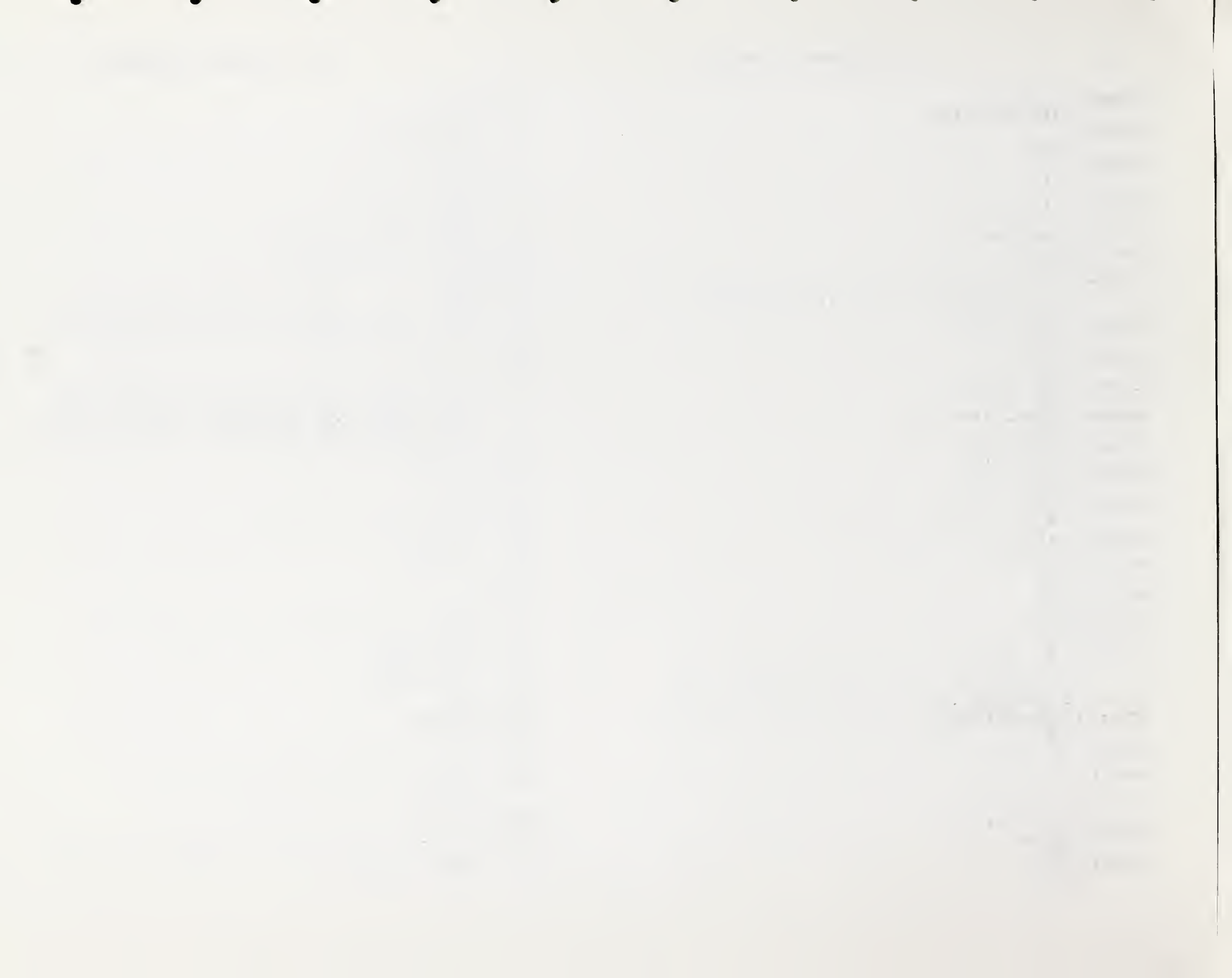
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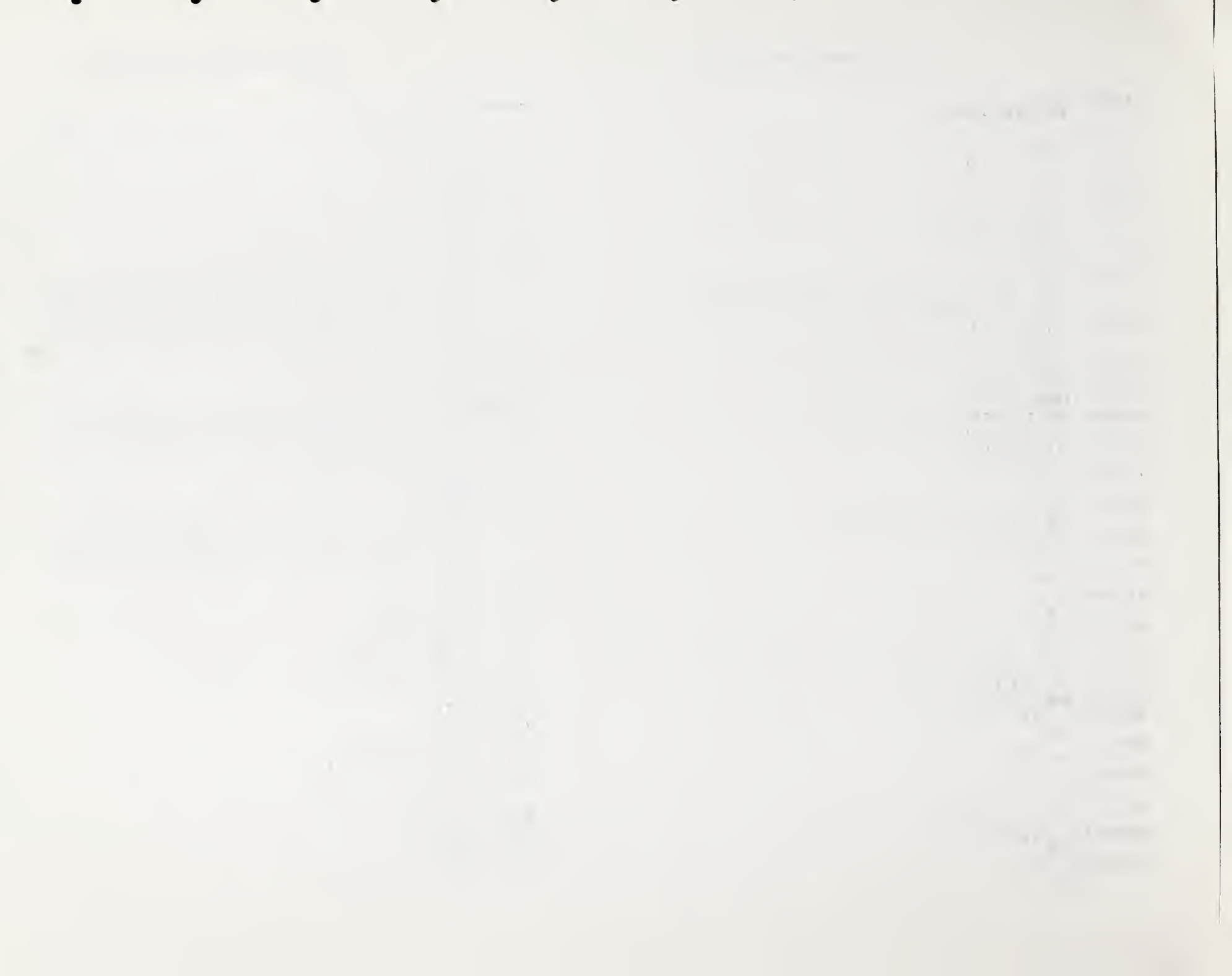
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The following table shows the results of the experiment. The first column is the number of trials, the second column is the number of correct responses, and the third column is the percentage of correct responses.

Number of trials	Number of correct responses	Percentage of correct responses
10	7	70%
20	14	70%
30	21	70%
40	28	70%
50	35	70%
60	42	70%
70	49	70%
80	56	70%
90	63	70%
100	70	70%

As can be seen from the table, the percentage of correct responses is constant at 70% for all numbers of trials. This suggests that the subject is performing at a level of 70% accuracy.

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1668

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1463

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1756

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2043

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64

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SPIRAEA, VANHOUTTE'S
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1675

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1190

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1516

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1757

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1205, 1244, 1351, 1543, 1546, 1547, 1687, 1928,
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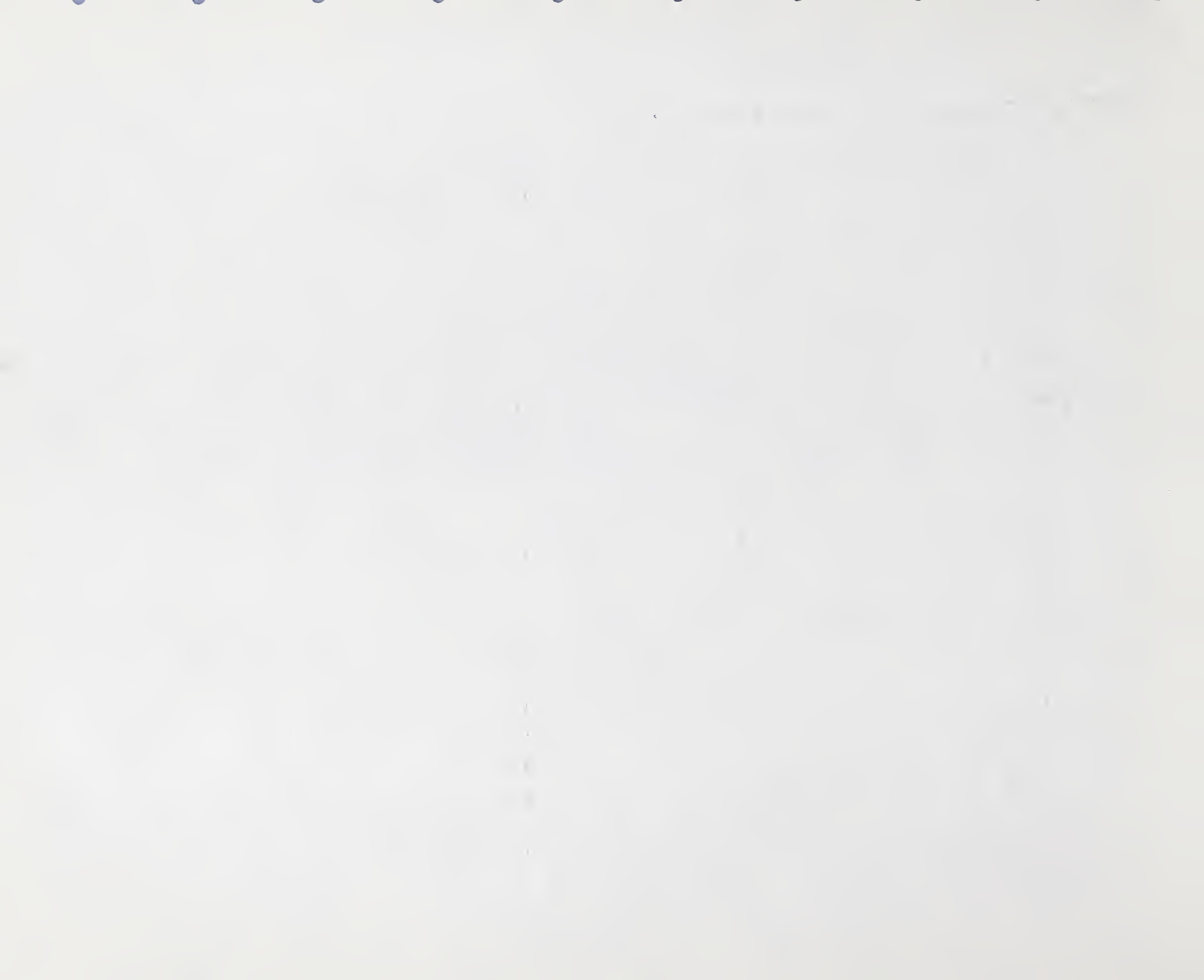
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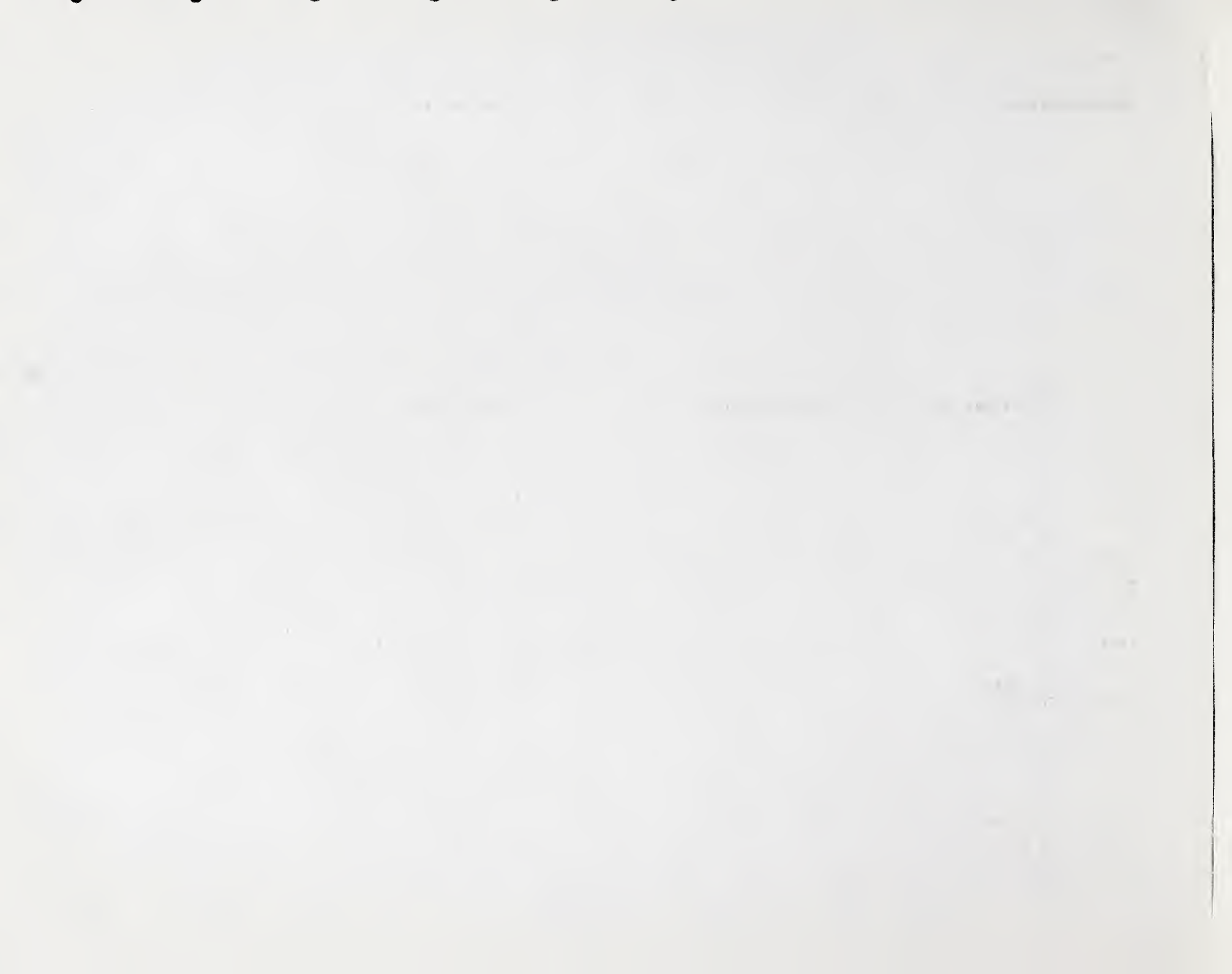
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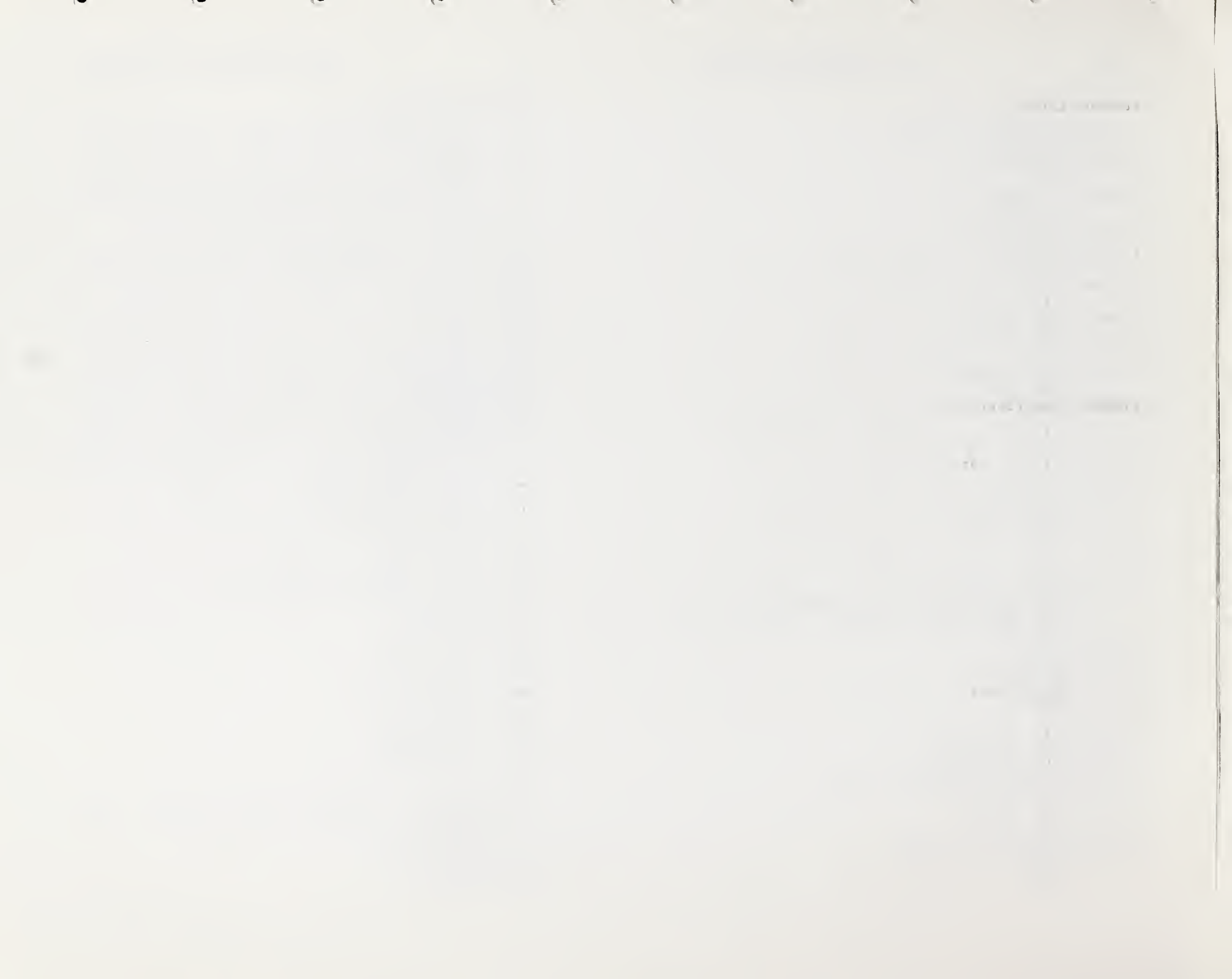
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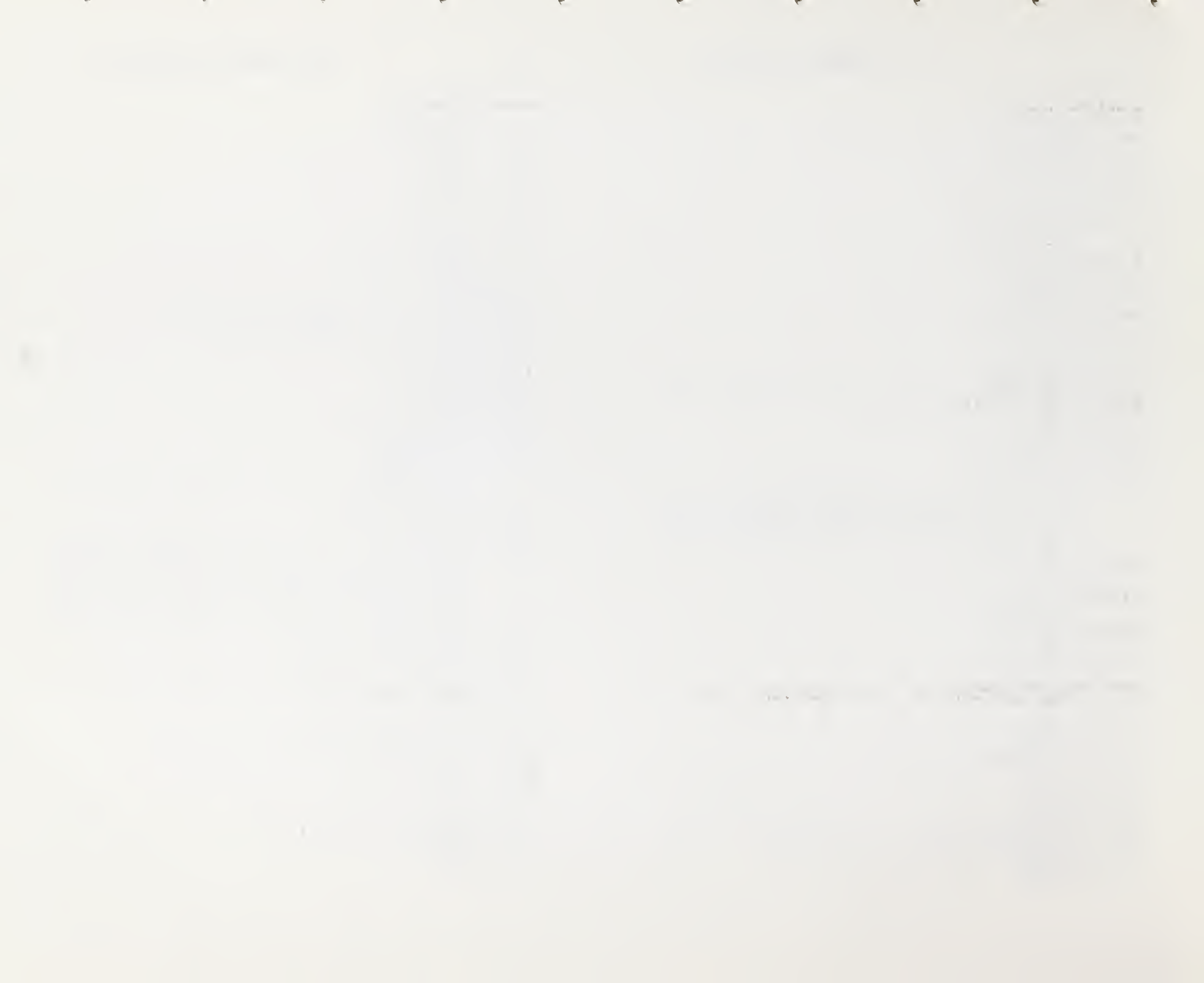
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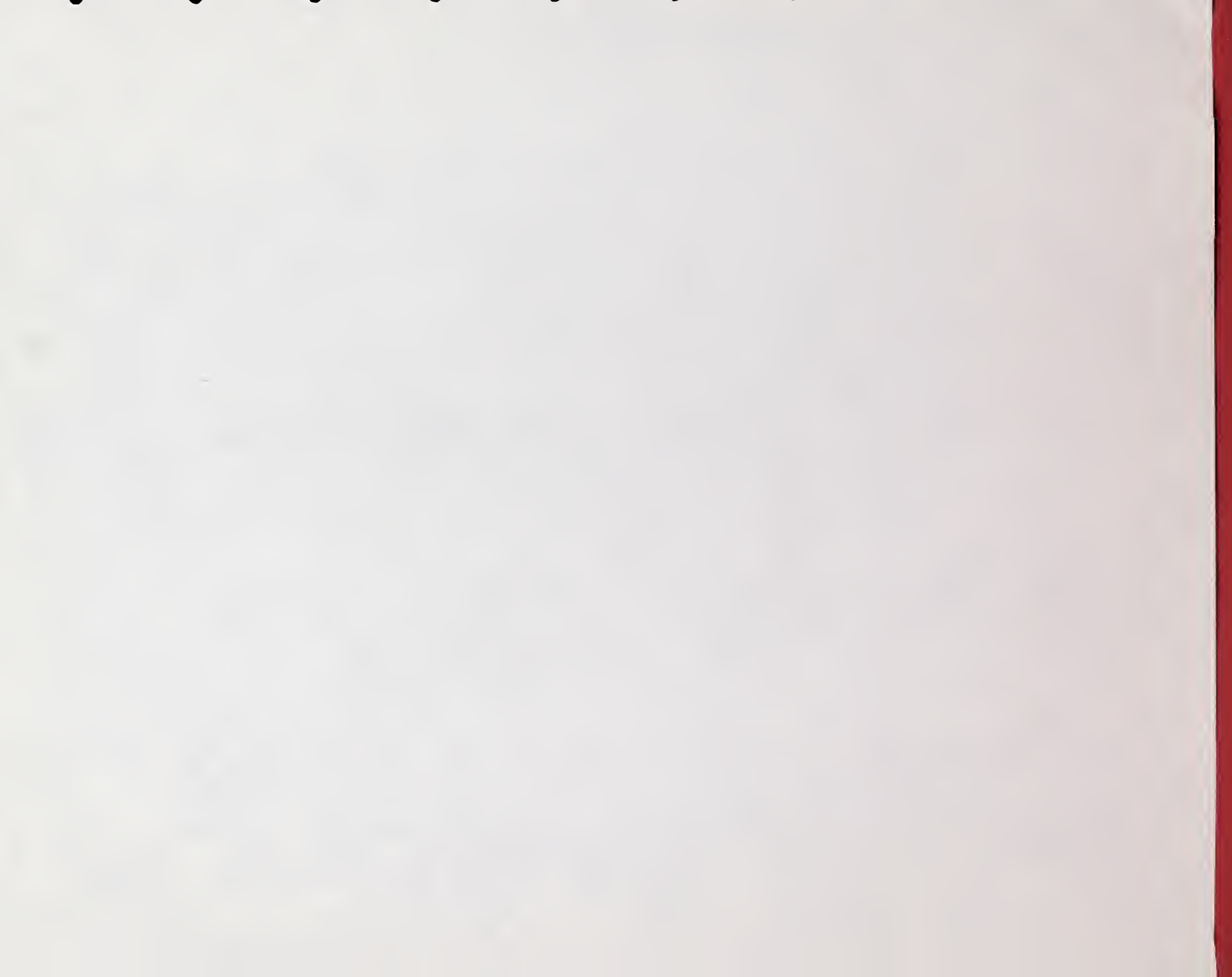
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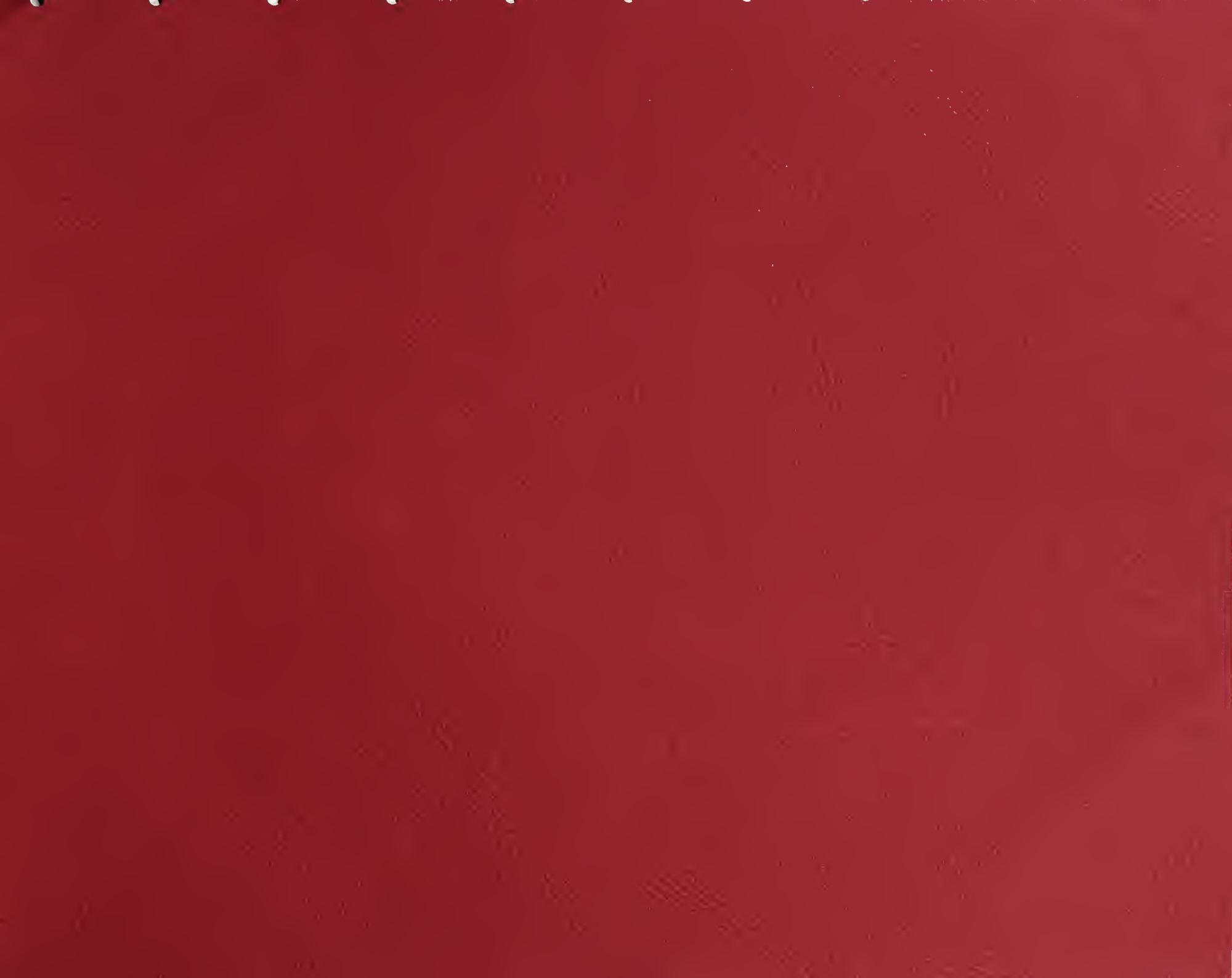
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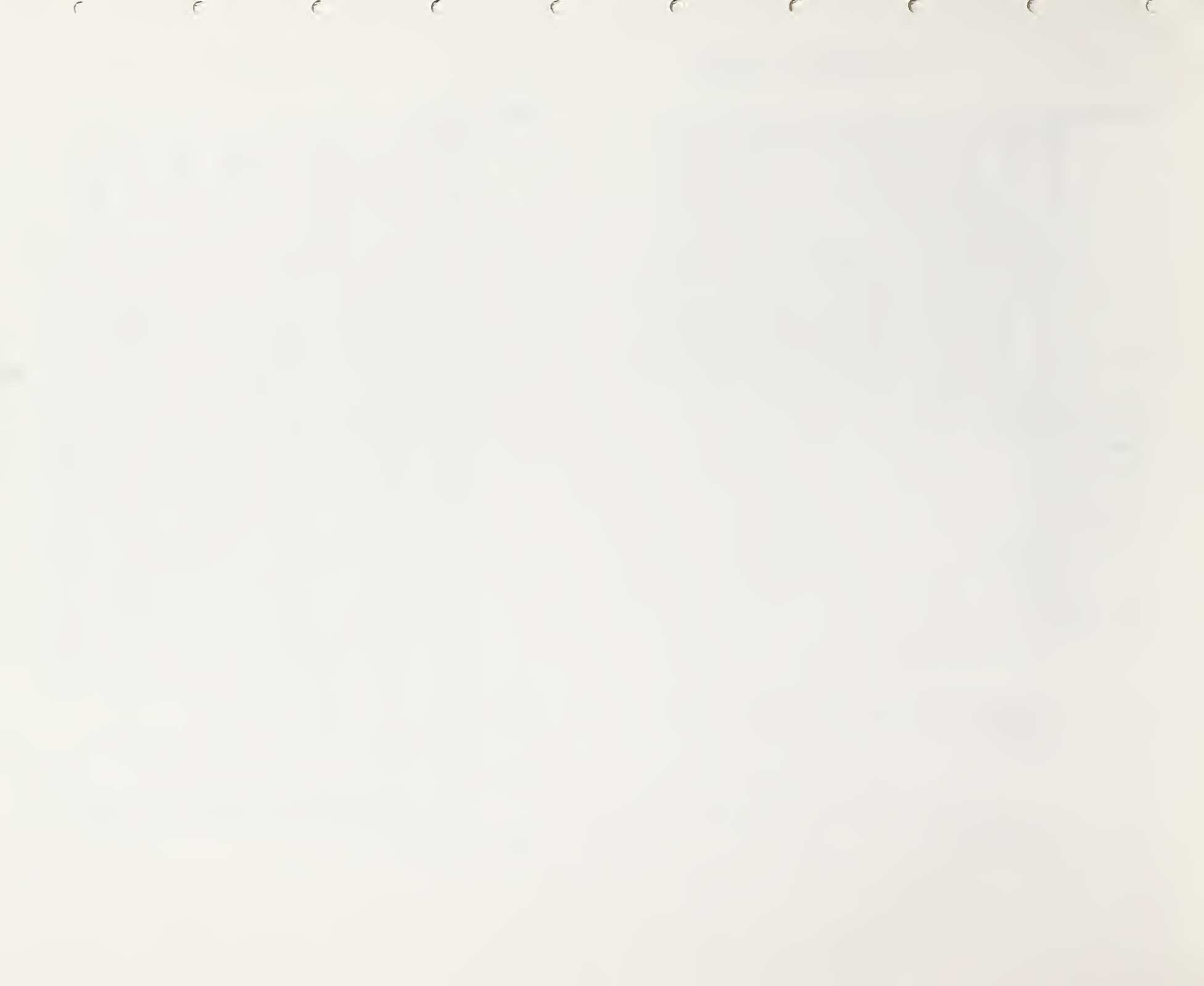
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