

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
National Agricultural Library
Beltsville, Md. 20705

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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1. ABAZA, M.; GHONEIM, M. F.; ZWAIK, A. USE OF SEA-WATER DILUTIONS FOR IRRIGATION IN SAND DUNES IN THE NORTHERN COASTS IN LIBYA. LIBYAN J. AGRIC. 3: 7-18. 1974. ALFALFA; BARLEY; BEET; FLAX; SAFFLOWER; WHEAT LEGUMINOSAE: MEDICAGO SATIVA; CHENOPODIACEAE: BETA VULGARIS; GRAMINEAE: TRITICUM AESTIVUM, HORDEUM VULGARE; LINACEAE: LINUM USITATISSIMUM; COMPOSITAE: CARTHAMUS TINCTORIUS. SAND, LYSIMETER, POT. FIELD PLOT, SOIL SEA WATER VEGETATIVE GROWTH, MINERAL COMPOSITION 04013.
2. ABDEL SALAM, M. A.; EL NOUR, S. A. INTERACTION OF SALINE WATER IRRIGATION AND NITROGEN FERTILIZATION ON CORN PRODUCTION IN CALCAREOUS SOIL. J. SOIL SCI. U.A.R. 5: 121-134. 1965. CORN GRAMINEAE: ZEA MAYS. LYSIMETER, SOIL SODIUM, CALCIUM, MAGNESIUM, CHLORIDE, NITROGEN, SODIUM ADSORPTION RATIO, FERTILITY VEGETATIVE GROWTH, MINERAL COMPOSITION 020G2.
3. ABDEL SALAM, M. A.; OSMAN, A. Z. INTERACTION OF SALINE WATER IRRIGATION AND PHOSPHORUS FERTILIZATION ON CROP PRODUCTION. J. SOIL SCI. U.A.R. 5: 75-88. 1965. ALFALFA; BARLEY LEGUMINOSAE: MEDICAGO SATIVA; GRAMINEAE: HORDEUM VULGARE. POT. SOIL PHOSPHORUS, SODIUM, CALCIUM, MAGNESIUM, CHLORIDE, FERTILITY, SODIUM ADSORPTION RATIO VEGETATIVE GROWTH, MINERAL COMPOSITION 02003.
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 INDIGO. GLEDITSIA TRIACANTHOS. LABURNUM ANAGYROIDES; SALICACEAE: POPULUS EUROAMERICANA. POPULUS NIGRA;
 HIPPOCASTANACEAE: AESCULUS HIPPOCASTANUM; BERBERIDACEAE: BERBERIS THUNBERGII; CORNACEAE: CORNUS SANGUINEA;
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 ALLIUM CEPA; COMPOSITAE: CYNARA SCOLYMUS; VITACEAE: VITIS; LEGUMINOSAE: MEDICAGO SATIVA; GRAMINEAE: SORGHUM
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CABBAGE; SORGHUM; CALENDULA; RADISH; OATS; CELERY; MUSTARD; PARSLEY; ALFALFA; LETTUCE; TOBACCO; VETCH; TOMATO;
POPPY. CALIFORNIA; TURNIP; BEET; BEET. LEAF; MUSKMELON; CLOVER. SWEET; PEA. SWEET; BEET. SUGAR; OXALIS; COTTON;
ARTICHOKE; ASPARAGUS; ZINNIA; PEA ROSACEAE: RUBUS. PRUNUS AVIUM. PRUNUS PERSICA. FRAGARIA; CUCURBITACEAE: CUCUMIS
MELO; RUTACEAE: CITRUS LIMONIA; CRUCIFERAE: BRASSICA OLERACEA. RAPHANUS SATIVUS. BRASSICA RAPA. BRASSICA;
EBENACEAE: DIOSPYROS KAKI; SOLANACEAE: CAPSICUM FRUTESCENS. SOLANUM TUBEROSUM. NICOTIANA TOMENTOSA. LYCOPERSICON
ESCULENTUM; MORACEAE: FICUS CARICA; ULMACEAE: ULMUS AMERICANA; LEGUMINOSAE: LUPINUS HARTWEGII. PHASEOLUS VULGARIS.
VIGNA SINENSIS. PISUM SATIVUM. PHASEOLUS LUNATUS. MEDICAGO SATIVA. VICIA ATROPURPUREA. MELILOTUS INDICA. LATHYRUS
ODORATUS; VITACEAE: VITIS; LILIACEAE: ASPARAGUS OFFICINALIS; VIOLACEAE: VIOLA ODORATA. VIOLA TRICOLOR; MALVACEAE:
GOSSYPIUM HIRSUTUM; COMPOSITAE: HELIANTHUS TUBEROSUS. ZINNIA ELEGANS. CALENDULA OFFICINALIS. LACTUCA SATIVA. CYNARA
SCOLYMUS; GRAMINEAE: HORDEUM VULGARE. POA PRATENSIS. ZEA MAYS. SORGHUM VULGARE. AVENA SATIVA; RANUNCULACEAE:
DELPHINIUM; AMARYLLIDACEAE: ALLIUM CEPA; CONVULVULACEAE: IPOMOEA BATATAS; UMBELLIFERAE: DAUCUS CAROTA. APIUM
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PHASEOLUS VULGARIS; RUTACEAE: CITRUS; LAURACEAE: PERSEA AMERICANA; JUGLANDACEAE: JUGLANS. SAND. POT CHLORIDE.
SULFATE. BORON. BICARBONATE. NITRATE TOXICITY. ROOT GROWTH. WATER UPTAKE 03490.
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PHASEOLUS VULGARIS. MEDICAGO SATIVA; CHENOPODIACEAE: BETA VULGARIS; SOLANACEAE: LYCOPERSICON ESCULENTUM. SAND
TANK. WATER CULTURE. POT. GREENHOUSE CHLORIDE. SULFATE. CALCIUM. MAGNESIUM. SODIUM VEGETATIVE GROWTH. LEAF
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 ENDIVIA; CRUCIFERAE: BRASSICA OLERACEA VAR BOTRYTIS; LEGUMINOSAE: PHASEOLUS VULGARIS; CHENOPODIACEAE: SPINACIA
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SALICACEAE: POPULUS ALBA. POPULUS CANESCENS. POPULUS CANADENSIS. POPULUS NIGRA "ITALICA". SALIX. SALIX ALBA;
FAGACEAE: FAGUS SYLVATICA. QUERCUS ROBUR; OLEACEAE: FRAXINUS EXCELSIOR. SYRINGA VULGARIS. LIGUSTRUM VULGARE.
LIGUSTRUM; CORYLACEAE: BETULA PUBESCENS. ALNUS INCANA. ALNUS GLUTINOSA. CORYLUS AVELLANA. CARPINUS BETULUS;
LEGUMINOSAE: ROBINIA PSEUDOACACIA. CARAGANA ARBORESCENS; MORACEAE: MORUS NIGRA; ROSACEAE: AMELANCHIER OVALIS.
AMELANCHIER VULGARIS. PRUNUS SPINOSA. PRUNUS SEROTINA. SORBUS INTERMEDIA. SORBUS SCANDICA. SORBUS AUCUPARIA.
CRATAEGUS MONOGYNA. ROSA RUGOSA; ACERACEAE: ACER PSEUDOPLATANUS. ACER CAMPESTRE. AESCULUS HIPPOCASTANUM; TILIACEAE:
TILIA; SOLANACEAE: LYCIUM HALIMIFOLIUM; PLATANACEAE: PLATANUS ACERIFOLIA; TAMARICACEAE: TAMARIX GALLICA;
JUGLANDACEAE: JUGLANS REGIA; CAPRIFOLIACEAE: SAMBUCUS NIGRA; ULMACEAE: ULMUS GLABRA. ULMUS HOLLANDICA. ULMUS
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CHENOPODIACEAE: BETA MARITIMA; GRAMINEAE: CATAPODIUM MARINUM. FESTUCA RUBRA. HOLCUS LANATUS; PLUMBAGINACEAE:
ARMERIA MARITIMA; CRUCIFERAE: COCHLEARIA OFFICINALIS; ERICACEAE: CALLUNA VULGARIS; LEGUMINOSAE: ULEX EUROPAEUS;
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- ORIENTALIS; LAURACEAE: CINNAMOMUM JAPONICUM; BETULACEAE: ALNUS HIRSUTA, ALNUS SIEBOLDIANA; THEACEAE: EURYA EMARGINATA; LEGUMINOSAE: LESPEDEZA CUNEATA. POT. SOIL, SLUDGE SALINE WATER SALT TOLERANCE, VEGETATIVE GROWTH, LEAF INJURY 03917.
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1059. KAGEYAMA, M.; MASAKI, T. STUDIES ON THE PRODUCTIVITY OF VEGETABLE CROPS UNDER PLASTIC GREENHOUSE. I THE CORRELATION BETWEEN GROWTH, ELECTRICAL CONDUCTIVITY, OSMOTIC PRESSURE OF SUBSTRATES OF PLANTS AND SOLUBLE SALT CONCENTRATION IN SOILS. (JAP; ENG SUM). OKITSU HORT. RES. STA. BULL. SER. B. 6: 95-112. 1966. CUCUMBER; WATERMELON; TOMATO; BEAN. KIDNEY LEGUMINOSAE: PHASEOLUS VULGARIS; CUCURBITACEAE: CUCUMIS SATIVUS. CITRULLUS VULGARIS; SOLANACEAE: LYCOPERSICON ESCULENTUM. GREENHOUSE. SOIL SODIUM. CHLORIDE. FERTILIZER. OSMOTIC PRESSURE CELL SAP CONCENTRATION. VEGETATIVE GROWTH. GERMINATION. ROOT GROWTH. FRUIT QUALITY 03812.
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- SUM). OKITSU HORT. RES. STA. BULL. SER. B. 7: 29-55. 1967. CUCUMBER CUCURBITACEAE: CUCUMIS SATIVUS. GREENHOUSE. POT. SOIL FERTILIZER. AMMONIUM. SULFATE. PHOSPHATE. POTASSIUM. CALCIUM. . WATER STRESS. TEMPERATURE. OSMOTIC PRESSURE VEGETATIVE GROWTH. ROOT GROWTH. CELL SAP CONCENTRATION 03813.
1061. KAHANE, I.; POLJAKOFF-MAYBER, A. EFFECT OF SUBSTRATE SALINITY ON THE ABILITY FOR PROTEIN SYNTHESIS IN PEA ROOTS. PLANT PHYSIOL. 43: 1115-1119. 1968. PEA LEGUMINOSAE: PISUM SATIVUM. GROWTH CHAMBER. GERMINATION DISHES. VERMICULITE SODIUM. CHLORIDE. KINETIN. LEUCINE. SULFATE AMINO ACID UPTAKE. MINERAL COMPOSITION 02480.
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BERSEEM; VETCH. HAIRY; VETCH. SCARLET; BEAN. BROAD; BEET. SUGAR; WHEAT; EMMER; BARLEY; RYE; OATS; CORN; RICE; PALM, CANARY ISLAND; OLEANDER; BEEFWOOD; PALM. WASHINGTON; DATE PALM; PALM; COTTON; FLAX; CELERY; ONION; ASPARAGUS; POTATO; GRAPE; ARTICHOKE. GLOBE; CABBAGE; CAULIFLOWER; EGGPLANT; SPINACH; POTATO. SWEET; COTTONWOOD. FREMONT; CHINABERRY; GOLDEN-RAIN TREE; PLANE TREE. EUROPEAN; GUM. RED; GUM. BLUE; GUM. GRAY; POMEGRANATE; TAMARISK; ORANGE; LEMON; PLUM; APRICOT; PEACH; CHERRY; WALNUT. ENGLISH GRAMINEAE: AGROPYRON SMITHII, BROMUS INERMIS, ARRHENATHERUM ELATIUS, LOLIUM MULTIFLORUM, DISTICHLIS STRICTA, SORGHUM VULGARE, SETARIA ITALICA, PANICUM MILIACEUM, TRITICUM AESTIVUM, HORDEUM VULGARE, AVENA SATIVA, SECALE CEREALE, ZEA MAYS, ORYZA SATIVA, TRITICUM DICOCCUM; TAMARICACEAE: TAMARIX GALLICA; CHENOPODIACEAE: BETA VULGARIS, ATRIPLEX BREWERI, ATRIPLEX LENTIFORMIS, SPINACIA OLERACEA; 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 INFORMATION ARTICLE.

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ELAEAGNUS; MYRTACEAE: EUCALYPTUS RUDIS, EUCALYPTUS ROSTRATA; PLATANACEAE: PLATANUS ORIENTALIS; CASUARINACEAE: CASUARINA. SALT TOLERANCE INFORMATION ARTICLE: 02516.

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ULMACEAE: ULMUS GLABRA, ULMUS CARPINIFOLIA, ULMUS PUMILA; JUGLANDACEAE: JUGLANS NIGRA; SALICACEAE: POPULUS BALSAMIFERA, POPULUS SIMONII; ROSACEAE: CRATAEGUS OXYACANTHA, PRUNUS AVIUM, PRUNUS SERRULATA, SORBUS AUCUPARIA, SORBUS NIGRA; TILIACEAE: TILIA; OLEACEAE: FRAXINUS EXCELSIOR; PLATANACEAE: PLATANUS ACERIFOLIA; LEGUMINOSAE: SOPHORA JAPONICA, GLEDITSIA TRIACANTHOS, ROBINIA PSEUDOACACIA; SIMAROUBACEAE: AILANTHUS ALTISSIMA. FIELD DEICING SALT, SODIUM CHLORIDE CHLORIDE UPTAKE, SODIUM UPTAKE 03913.

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SUBAXILLARIS. LEPTILON CANADENSE. FIELD. SOIL SALT SPRAY SALT TOLERANCE. LEAF INJURY 02831

1537. OOSTING, H. J.; BILLINGS, W. D. FACTORS AFFECTING VEGETATIONAL ZONATION ON COASTAL DUNES. ECOLOGY 23: 131-142. 1942. NATIVE VEGETATION EUPHORBIACEAE: EUPHORBIA POLYGONIFOLIA, CROTON PUNCTATUS; CHENOPODIACEAE: CHENOPODIUM ANTHELMINTICUM; COMPOSITAE: LEPTILON CANADENSE, SOLIDAGO MEXICANA, HETEROTHECA SUBAXILLARIS; XYRIDACEAE: XYRIS; LILIACEAE: SMILAX BONA-NOX; GRAMINEAE: UNIOLA PANICULATA, ANDROPOGON LIITORALIS, CENCHRUS TRIBULOIDES; SOLANACEAE: PHYSALIS VISCOSA, SOLANUM CAROLINENSE; CRUCIFERAE: CAKILE EDENTULA, LEPIDIUM VIRGINICUM; ONAGRACEAE: OENOTHERA HUMIFUSA; CYPERACEAE: FIMBRISTYLIS CASTANEA; MYRICACEAE: MYRICA CERIFERA; JUNCACEAE: JUNCUS MEGACEPHALUS; VITACEAE: PARTHENOCISSUS QUINQUEFOLIA. FIELD, SOIL SALT SPRAY ECOLOGY, VEGETATIVE GROWTH 02833.
1538. ORLOVSKI, N. V.; KUPSTOVA, A. M. THE CHIEF CAUSES OF THE TOXIC PHENOMENA FOR PLANTS ON SOLONETS. (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 02825.
1539. ORTEGA, B. C. ESTUDIO DEL CULTIVO DEL TEBOL FRENTE A TRATAMIENTOS DE ACIDO HUMICO Y SALINIDAD. STUDY OF THE CULTURE OF TREFOIL 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 02843.
1540. OSAWA, T. EFFECT OF THE AVAILABLE NITROGEN DIFFERENT IN FORMS ON PAK-CHOI, BRASSICA CHINENSIS L. INJURED BY THE SALINITY. BULL. UNIV. OSAKA PREF. SERIES B5: 15-18. 1955. PAK-CHOI CRUCIFERAE: BRASSICA CHINENSIS. POT, SAND, GREENHOUSE SODIUM, CHLORIDE, NITRATE, AMMONIUM VEGETATIVE GROWTH, MINERAL COMPOSITION 03264.
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 03830.
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 26: 9-14. 1957. EGGPLANT SOLANACEAE: SOLANUM ESCULENTUM. SAND, GREENHOUSE, POT SODIUM, CHLORIDE VEGETATIVE GROWTH, FLOWERING, FRUIT QUALITY, MINERAL COMPOSITION 02828.
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 03265.
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 02869.
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 02870.
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 02871.
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 02867.
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 CICLA, 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 03829.
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 03861.
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 03862.
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 03863.
1552. OSMOND, C. B. HALOPHYTES AND ADAPTATION TO SALINITY. PRCC. WORKSHOP ON SALT EFFECTS ON PLANT STRUCTURES AND PROCESSES, RIVERSIDE, CALIF. APRIL 1976: 79-80. 1976. REVIEW ARTICLE; 04093.
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; SALTBUSH GRAMINEAE: ZEA MAYS; LEGUMINOSAE: PHASEOLUS VULGARIS; CHENOPODIACEAE: ATRIPLEX SPONGIOSA, ATRIPLEX NUMMULARIA. SODIUM, CHLORIDE, POTASSIUM, SULFATE, PHOSPHOENOLPYRUVATE CARBOXYLASE, RIBULOSE DISPHOSPHATE CARBOXYLASE ENZYME ACTIVITY 02832.
1554. OTA, K.; HAYASHI, H. STUDIES ON THE SALT INJURY TO CROPS. IX. 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 02859.

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 02861.
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 03741.
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 02915.
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 03652.
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 02860.
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 02855.
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 02827.
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 02824.
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 03881.
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 02835.
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 02836.
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 02829
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 02848.
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 03524.
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 02846.
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 03568.
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1572. PALFI, G. A NATRIUMSOK HATASA A RIZSHAJTAS NITROGEN, FOSZFOR ES AMINOSAV TARTALMARA. THE EFFECT OF SODIUM SALTS ON THE NITROGEN, PHOSPHORUS AND AMINO-ACID CONTENT OF RICE SHOOTS. (HUN; FRE SUM). AGROKEM. TALAJT. 12: 361-370. 1963. RICE GRAMINEAE: ORYZA SATIVA. SODIUM. CHLORIDE. SULFATE AMINO ACID. NITROGEN UPTAKE. PHOSPHORUS UPTAKE. ASPARAGINE. GLUTAMIC ACID. GLUTAMINE. ALANINE 03612.
1573. PALFI, G.; JUHASZ, J. INCREASE OF THE FREE PROLINE LEVEL IN WATER DEFICIENT LEAVES AS A REACTION TO SALINE OR COLD ROOT MEDIA. ACTA AGRON. ACAD. SCI. HUNG. 19:79-88. 1970. PAPRIKA; SUNFLOWER; BEAN; PEA SOLANACEAE: CAPSICUM ANNUUM; LEGUMINOSAE: PISUM SATIVUM. PHASEOLUS VULGARIS; COMPOSITAE: HELIANTHUS ANNUUS. POT. SOIL TEMPERATURE. SODIUM. CHLORIDE. MAGNESIUM. SULFATE. POTASSIUM. CALCIUM WATER UPTAKE. PROLINE. WATER CONTENT 02904.
1574. PALIWAL, K. V.; ANJANEYULU, B. S. R. GROWTH OF WHEAT AND GRAM UNDER SALINE-ALKALI FIELD CONDITIONS. MADRAS AGRIC. J. 54: 169-175. 1967. WHEAT; GRAM. BLACK GRAMINEAE: TRITICUM AESTIVUM; LEGUMINOSAE: PHASEOLUS MUNGO. FIELD. SOIL SALINE SOIL. ALKALINE SOIL VEGETATIVE GROWTH. SALT TOLERANCE 02911.
1575. PALIWAL, K. V.; GANDHI, A. P. ANION EFFECT ON GERMINATION OF SOME JOWAR AND PADDY VARIETIES IN SALINE SUBSTRATE. INDIAN J. PLANT PHYSIOL. 11: 62-67. 1968. SORGHUM; RICE GRAMINEAE: ORYZA SATIVA. SORGHUM VULGARE. GERMINATION DISHES VARIETY. BICARBONATE. CARBONATE. SULFATE. CHLORIDE. NITRATE. SODIUM SALT TOLERANCE. GERMINATION 02905.
1576. PALIWAL, K. V.; MALIWAL, G. L. EFFECT OF SALTS ON THE GROWTH AND MINERAL NUTRITION OF CABBAGE (BRASSICA OLERACEA) IN SOIL AND SAND CULTURE. PROC. INDIAN NATL. SCI. ACAD. PART B. BIOL. SCI. 41: 155-160. 1975. CABBAGE CRUCIFERAE: BRASSICA OLERACEA VAR CAPITATA. SOIL. SAND. GREENHOUSE. POT. FIELD PLOT SODIUM. CALCIUM. CHLORIDE VEGETATIVE GROWTH. MINERAL COMPOSITION 02907.
1577. PALIWAL, K. V.; MALIWAL, G. L. EFFECTS OF SALTS ON THE GROWTH AND CHEMICAL COMPOSITION OF OKRA (ABELMOSCHUS ESCULENTUS) AND SPONGE GOURD (LUFFA CYLINDRICA). J. HORT. SCI. 47: 517-524. 1972. OKRA; GOURD. SPONGE MALVACEAE: ABELMOSCHUS ESCULENTUS. HIBISCUS ESCULENTUS; CUCURBITACEAE: LUFFA CYLINDRICA. GREENHOUSE. SAND. POT SODIUM. CALCIUM. CHLORIDE FRUIT QUALITY. VEGETATIVE GROWTH. NITROGEN UPTAKE. PHOSPHORUS UPTAKE. MINERAL COMPOSITION 03831.
1578. PALIWAL, K. V.; MALIWAL, G. L. SALT TOLERANCE OF SOME ARHAR (CAJANUS INDICUS) AND COWPEA (VIGNA SINENSIS) VARIETIES AT GERMINATION AND SEEDLING STAGES. ANN. ARID ZONE 12: 135-144. 1973. CAJAN; COWPEA LEGUMINOSAE: VIGNA SINENSIS. CAJANUS INDICUS. POT. SAND SODIUM. CHLORIDE. CALCIUM. VARIETY GERMINATION. SEEDLING GROWTH. SALT TOLERANCE 02949.

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LEGUMINOSAE: PHASEOLUS VULGARIS, PHASEOLUS LIMENSIS. SOIL. POT BRACKISH WATER VEGETATIVE GROWTH 02909.
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CELERY; PEA: POTATO: SORGHUM: SQUASH: WHEAT: CABBAGE: CARROT: COLLARD: CORN: COTTON: KALE: LETTUCE: BEAN, LIMA;
ONION: PEPPER: RADISH: SPINACH: TOBACCO: BEET: CAULIFLOWER: MUSTARD: TOMATO; TURNIP GRAMINEAE: AVENA SATIVA,
SECALE CEREALE, TRITICUM AESTIVUM, SORGHUM VULGARE, ZEA MAYS: CUCURBITACEAE: CUCUMIS SATIVUS, CUCURBITA;
LEGUMINOSAE: PHASEOLUS VULGARIS, PHASEOLUS LIMENSIS, PISUM SATIVUM; ROSACEAE: FRAGARIA; UMBELLIFERAE: APIUM
GRAVEOLENS, DAUCUS CAROTA VAR SATIVA; MALVACEAE: GOSSYPIUM; CRUCIFERAE: BRASSICA OLERACEA VAR CAPITATA, RAPHANUS
SATIVUS, BRASSICA OLERACEA VAR BOTRYTIS, BRASSICA JUNCEA, BRASSICA RAPA, BRASSICA OLERACEA VAR ACEPHALA;
COMPOSITAE: LACTUCA SATIVA; AMARYLLIDACEAE: ALLIUM CEPA; CHENOPODIACEAE: SPINACIA OLERACEA, BETA VULGARIS;
SOLANACEAE: SOLANUM TUBEROSUM, CAPSICUM FRUTESCENS, NICOTIANA TABACUM, LYCOPERSICON ESCULENTUM. POT. GREENHOUSE,
SOIL BORON, SOIL TYPE SALT TOLERANCE, TOXICITY 02899.
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SODIUM, POTASSIUM, CALCIUM, BICARBONATE, CARBONATE, SULFATE ROOT GROWTH 02957.
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- CUCURBITACEAE: CUCUMIS SATIVUS; SOLANACEAE: LYCOPERSICON ESCULENTUM, NICOTIANA TABACUM. SAND SODIUM, SULFATE, CHLORIDE MINERAL COMPOSITION 03173.
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ACER SACCHARINUM. ACER SACCHARUM. ACER TATARICUM; ANACARDIACEAE: RHUS GLABRA, RHUS TRILOBATA; BERBERIDACEAE: BERBERIS KOREANA, BERBERIS THUNBERGII, BERBERIS VULGARIS; CAPRIFOLIACEAE: LONICERA AMOENA VAR ALBA, LONICERA CAERULEA, LONICERA MAACKII, LONICERA PERICLYMENUM, LONICERA TATARICA, LONICERA TATARICA "ZABELII", LONICERA XYLOSTEUM, SAMBUCUS CANADENSIS, SAMBUCUS NIGRA, SAMBUCUS RACEMOSA, SYMPHORICARPOS ALBUS, SYMPHORICARPOS ALBUS VAR LAEVIGATUS, SYMPHORICARPOS ORBICULATUS, SYMPHORICARPOS RACEMOSUS, VIBURNUM LANTANA, VIBURNUM OPULUS, VIBURNUM TRILOBUM; CELASTRACEAE: EUONYMUS ALATA, EUONYMUS EUROPAEA, EUONYMUS VERFUCOSA; CHENOPODIACEAE: ATRIPLEX HASTATA, 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 ALLEGHANIENSIS, 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 "PLUMOSA", JUNIPERUS VIRGINIANA, THUJA OCCIDENTALIS; ELAEAGNACEAE: ELAEAGNUS ANGUSTIFOLIA, ELAEAGNUS X EBBINGEI, ELAEAGNUS UMBELLATA, HIPPOPHAE RHAMNOIDES, SHEPHERDIA ARGENTEA; FAGACEAE: QUERCUS ALBA, QUERCUS BICOLOR, QUERCUS MACROCARPA, QUERCUS MUEHLENBERGII, QUERCUS PALUSTRIS, QUERCUS RUBRA; HIPPOCASTANACEAE: AESCULUS HIPPOCASTANUM; JUGLANDACEAE: CARYA OVATA, JUGLANS NIGRA: 03638.

2092. SUCOFF, E. EFFECTS OF DEICING SALTS ON WOODY VEGETATION ALONG MINNESOTA ROADS. MINN. AGRIC. EXPT. STA. BULL. 303: 49 PP. 1975. (CONTINUED FROM CITATION ABOVE). LEGUMINOSAE: CARAGANA ARBORESCENS, GLEDITSIA TRIACANTHOS VAR INERMIS, GLEDITSIA TRIACANTHOS, HALIMODENDRON HALODENDRON, ROBINIA PSEUDOACACIA; MORACEAE: MORUS ALBA; OLEACEAE: FRAXINUS AMERICANA, FRAXINUS ANGUSTIFOLIA, FRAXINUS PENNSYLVANICA VAR LANCEOLATA, FRAXINUS PENNSYLVANICA, FRAXINUS PENNSYLVANICA VAR SUBINTEGRINA, LIGUSTRUM VULGARE, SYRINGA VULGARIS; PINACEAE: ABIES BALSAMEA, LARIX DECIDUA, LARIX LEPTOLEPIS, PICEA ABIES, PICEA GLAUCA, PICEA GLAUCA VAR DENSATA, PICEA PUNGENS, PINUS CEMBRA, PINUS MUGO, PINUS NIGRA, PINUS PONDEROSA, PINUS RESINOSA, PINUS STROBUS, PINUS SYLVESTRIS, PSEUDOTSUGA MENZIESII, TSUGA CANADENSIS; ROSACEAE: AMELANCHIER X GRANDIFLORA, AMELANCHIER OVALIS, COÏONEASTER INTEGERRIMUS, CRATAEGUS CRUS-GALLI, CRATAEGUS PUNCTATA, CRATAEGUS SANGUINEA, MALUS DOLGO, MALUS "HOPA", MALUS "RADJANT", MALUS SYLVESTRIS, PHYSOCARPUS OPULIFOLIUS "NANUS", POTENTILLA FRUTICOSA, PRUNUS PADUS, PRUNUS SEROTINA, ROSA CANINA, ROSA MULTIFLORA, ROSA VIRGINIANA, SORBUS AUCUPARIA, SORBUS DECORA, SORBUS X HYBRIDA, SORBUS LATIFOLIA, SPIRAEA BUMALDA "FROEBELII", SPIRAEA VANHOUTTEI; RANUNCULACEAE: CLEMATIS VITABLA; RHAMNACEAE: RHAMNUS CATHARTICA, RHAMNUS CRENATA, RHAMNUS DAVURICA, RHAMNUS FRANGULA; SALICACEAE: POPULUS ACUMINATA, POPULUS ALBA, POPULUS ANGUSTIFOLIA, POPULUS BALSAMIFERA, POPULUS CANADENSIS, POPULUS CANESCENS, POPULUS DELTOIDES, POPULUS GRANDIDENTATA, POPULUS LAURIFOLIA, POPULUS NIGRA, POPULUS NIGRA "ITALICA", POPULUS NIGRA "PLANTIERENSIS", POPULUS SARGENTII, POPULUS TRICHOCARPA, POPULUS TREMULOIDES, SALIX ALBA, SALIX ALBA VAR VITELLINA, SALIX X HELIX, SALIX X ALOPECUROIDES, SALIX AMYGDALINA, SALIX X BASFORDIANA, SALIX CAPREA, SALIX CORDATA, SALIX DAPHNOIDES, SALIX X DASYCLADOS, SALIX FRAGILIS, SALIX X HIPPOPHAEFOLIA, SALIX X MEYERIANA, SALIX PENTANDRA, SALIX VIMINALIS, SALIX PURPUREA VAR LAMBERTIANA, SALIX PURPUREA "NANA", SALIX X RUBENS, SALIX STIPULARIS, SALIX X TINCTORIA; SAXIFRAGACEAE: PHILADELPHUS CORONARIUS, RIBES ALPINUM, RIBES AMERICANUM, RIBES AUREUM, RIBES DIVARICATUM, RIBES MAGDALENAE, RIBES NIGRUM; SOLANACEAE: LYCIUM CHINENSE, LYCIUM HALIMIFOLIUM; TAMARICACEAE: TAMARIX PENTANDRA; TILIACEAE: TILIA AMERICANA, TILIA CORDATA, TILIA PLATYPHYLLA; ULMACEAE: ULMUS AMERICANA, ULMUS GLABRA, ULMUS PUMILA, ULMUS PUMILA VAR ARBOREA, CELTIS OCCIDENTALIS; VITACEAE: PARTHENOCISSUS QUINQUEFOLIA. 03638.
2093. SUCOFF, E.; FELLER, R.; KANTEN, D. DEICING SALT (SODIUM CHLORIDE) DAMAGE TO PINUS RESINOSA AIT. CAN. J. FOR. RES. 5: 546-556. 1975. PINE, RED PINACEAE: PINUS RESINOSA. FIELD, SOIL DEICING SALT, SODIUM, CHLORIDE LEAF INJURY, OSMOTIC POTENTIAL 03151.
2094. SUCOFF, E.; HONG, S. G. EFFECT OF NA CL ON COLD HARDINESS OF MALUS SPP. AND SYRINGA VULGARIS. CAN. J. BOT. 54: 2816-2819. 1976. CRABAPPLE, RADIANT; CRABAPPLE, GARDEN FLOWERING ROSACEAE: MALUS; OLEACEAE: SYRINGA VULGARIS. SOIL SODIUM, CHLORIDE, TEMPERATURE LEAF INJURY, COLD HARDINESS 03979.
2095. SUCOFF, E.; HONG, S. G.; WOOD, A. NA CL AND TWIG DIEBACK ALONG HIGHWAYS AND COLD HARDINESS OF HIGHWAY VERSUS GARDEN TWIGS. CAN. J. BOT. 54: 2268-2274. 1976. ASH, GREEN; LILAC, COMMON; CRABAPPLE, HOPA FLOWERING; DOGWOOD, RED-OSIER; WILLOW, LAUREL LEAF OLEACEAE: FRAXINUS PENNSYLVANICA, SYRINGA VULGARIS; SALICACEAE: SALIX PENTANDRA; CORNACEAE: CORNUS STOLONIFERA; ROSACEAE: MALUS. SOIL, FIELD, GREENHOUSE, WATER CULTURE TEMPERATURE, SODIUM, CHLORIDE LEAF INJURY, MINERAL COMPOSITION, COLD HARDINESS 03978.

2096. SUNDARARAJ, D. D.; RAMAKRISHNAN, V.; KHAN, A. M. M. A.; VIJAYAN, K. P. SPOROBOLUS ORIENTALIS KUNTH AND SPOROBOLUS TREMULUS KUNTH. TWO NEW LAWN GRASSES FOR COASTAL AND SALINE TRACTS. SOUTH INDIAN HORT. 23: 73-74 1975. GRAMINEAE: SPOROBOLUS ORIENTALIS. SPOROBOLUS TREMULUS. SALT TOLERANCE INFORMATION ARTICLE: 03532.
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Corrections or Additions

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1190-71 remove space in 2nd page

340 TRMT add sprinkler irrigation

1305 No year