

**A COMPENDIUM OF
SUGAR BEET INFORMATION**

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Summary

This “Compendium of Sugar beet Information” represents the initial studies in the project “Evaluation of the commercial potential of Sugar beet on the Atherton Tableland” (RIRDC Project DAQ - 211A) and is the first of the Milestone achievements set for the project.

The Compendium lists references for subjects covering the entire range of sugar beet production - from varieties and planting, pest and disease control through to harvest and processing. Crop production issues considered to have particular relevance to North Queensland such as irrigation, variety development and pest, disease and weed control in sub-tropical environments, sugar beet processing in a sugar cane mill and sugar beet in maize and potato rotations have been given more focus.

Other subjects such as the use of sugar beet tops in stock rations have been included. Although not directly relevant to the outcomes of this project it was felt given the established dairy, pork and beef industries on the Atherton Tableland it was an area of potential value that should not be over-looked.

The references listed have been taken from over 10,000 supplied by a literature search on sugar beet and represents only research conducted since 1985. This gives an idea of the volume of material available for research purposes

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Introduction

World sugar production from sugar beet in 1999 was about 40 million tonnes which represents about 30 % of World production.

Sugar beet is grown as a sugar source mainly in the industrialised countries of the northern hemisphere. It is planted in the spring (March/April) and harvested in the autumn (October/November). Production in a sub tropical environment such as north Queensland would occur during the same months but would correspond to our autumn to spring with harvest in sync with that of the sugar cane crop.

Sugar beet is a highly 'technical' crop. All field operations are fully mechanised and the physiology of sugar production is well understood. Variety development is a major focus of research and is at the leading edge of crop development with the use of biotechnological methods and genetic engineering commonplace in most breeding programs. The first glyphosate resistant variety is soon to be released. As well, varieties are available with good resistance to a number of diseases such as powdery mildew, cercospora and rhizomania and seed can be supplied with coatings containing a number of insecticides and/or fungicides for pest and disease control.

Sugar beet research is undertaken at a number of centres throughout the world providing an enormous amount of information on sugar beet production from a range of climates, soil types, and irrigated/non-irrigated farming systems.

Environmental conditions in the potential area for sugar beet production in north Queensland are most similar to those found in the Imperial Valley of California where about 12,000 ha of sugar beet are grown as a fully irrigated winter crop. A number of varieties especially bred for these conditions were evaluated in field work conducted in 1998 and 1999.

Agronomy

Investigation into the efficiency of long-term fertilizer application for sugarbeet on hypogley in a winter wheat-sugarbeet-maize rotation.

Butorac A Basic F Vajnberger A Mihalic V (Fakultet Poljoprivrednih Znanosti, Sveucilista u Zagrebu, 41000 Zagreb, Yugoslavia.)

Source: Poljoprivredna Znanstvena Smotra. 1989, 54:3-4, p149-165 ,
ISSN 0370-0291

Document type: Journal article.(C) CAB International

Fertilizer placement: what can it achieve for sugar beet?

Dunham R (Broom's Barn Exp. Sta., Bury St. Edmunds, Suffolk, UK.)

Source: British Sugar Beet Review. 1991, 59:2, p21-25 , ISSN 0007-1854

Document type: Journal article.(C) CAB International

The effect of method of fertilizer application on sugar beet yield, yield quality and fertilizer requirement.

Raininko K Erjala M (Sugar Beet Research Centre, 25170 Kotalato, Finland.)

Source: Journal of Agricultural Science in Finland. 1991, 63:2, p99-114

ISSN 0782-4386

Document type: Journal article.(C) CAB International

Comparison of broadcast and banded fertilizer for sugarbeet production.

Christenson DR (Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824, USA.)

Source: Zuckerindustrie. 1992, 117:4, p254-258 , 6 ref. ISSN 0344-8657

Document type: Journal article.(C) CAB International

Effects of starter fertilisers on the early growth of sugarbeet.

Hayward CF (ADAS Terrington, Terrington St. Clement, King's Lynn PE34 4PW, UK.)

Source: Tests of Agrochemicals and Cultivars. 1992:No. 13, p80-81

ISSN 0951-4309 (Annals of Applied Biology 120 Supplement)

Document type: Journal article.(C) CAB International

Production and protection of sugar beet.

Asher MJC (ed.) Dewar AM (ed.) Heath MC (ed.) Jaggard KW (ed.) May MJ (ed.)

Institute of Arable Crops Research, Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: Aspects of Applied Biology. 1992:No.32, vii ISSN 0265-1491

Document type: Conference proceedings.(C) CAB International

The effects of crop nutrition on sugar beet quality.

Bell CI Jones JMilford GFJLeigh RA (AFRC Institute of Arable Crops Research, Rothamsted Experimental Station, Harpenden, Herts, AL5 2JQ, UK.)

Source: Aspects of Applied Biology. 1992:No.32, p19-26 ,ISSN 0265-1491

Document type: Journal article.(C) CAB International

Plant analysis as an aid in fertilizing sugarbeet.

Ulrich AHills FJWesterman RL (ed.) (University of California, Berkeley, CA 94720, USA.)

Source: Soil testing and plant analysis. 1990:Ed. 3, p429-447 , Soil Science Society of America Inc..

Madison, Wisconsin, USA.ISBN 0-89118-793-6

Document type: Miscellaneous.(C) CAB International

Foliar diagnosis of sugarbeet: mineral composition of leaves of different physiological age during the season.

Castelo Branco MASerrao MGFernandes MLSequeira EMDomingues HPires FPFragoso MAC (ed.)Beusichem MLvan (ed.) (National Agronomy Research Station, INIA, Quinta do Marques, 2780 Oeiras, Portugal.)

Source: Optimization of plant nutrition: refereed papers from the Eighth International Colloquium for the Optimization of Plant Nutrition, 31

August-8 September 1992, Lisbon, Portugal.. 1993, ISBN 0-7923-2519-2

Document type: Conference paper.(C) CAB International

Diagnosing nutritional status of sugarbeet by soil and petiole analysis.

Oliveira MDCarranca CFoliveira MMGusmao MRFragoso MAC (ed.)Beusichem MLvan (ed.) (National Agronomy Research Station, INIA, Quinta do Marques, 2780 Oeiras, Portugal.)

Source: Optimization of plant nutrition: refereed papers from the Eighth International Colloquium for the Optimization of Plant Nutrition, 31

August-8 September 1992, Lisbon, Portugal.. 1993, p147-151 ISBN 0-7923-2519-2

Document type: Conference paper.(C) CAB International

Aspects of fertiliser use in modern, high-yield sugar beet culture.

Draycott AP (Ashfield Green Farm, Wickhambrook, Newmarket, Suffolk CB8 8UZ, UK.

Source: IPI Bulletin. 1996:No. 15, 52 pp. International Potash Institute (IPI). Basel, Switzerland

Document type: Miscellaneous.(C) CAB International

Fine-tuning sugar beet fertility management in the Red River Valley (Minnesota,USA).

Hilde D (American Crystal Sugar Company, 101 North Third Street, Moorhead,MN56560, USA.)

Source: Better Crops with Plant Food. 1994, 78:4, p26-27 ISSN 0006-0089

Document type: Journal article.(C) CAB International

Agronomic practices to achieve maximum yields of sugar and leaf protein from sugarbeet.

Barik SMatai S (Leaf Protein Unit, Indian Statistical Institute, Calcutta, West Bengal, India.)

Source: Indian Journal of Agricultural Biochemistry. 1992, 5:1-2, p41-46 ISSN 0970-6399

Document type: Journal article.(C) CAB International

Studies on nutrient deficient symptoms of sugarbeet at seedling stage.

Li GQShi ZWLi GFYang LJGui MZ (Northeast Agricultural College, Harbin, Heilongjian, China.)

Source: China Sugarbeet. 1993:No. 2, p1-6

Document type: Journal article.(C) CAB International

Uptake of nutrients by sugarbeet.

Baierova VBaier J (Research Institute for Crop Production, 161 06 Praha-6,Czech Republic.)

Source: Rostlinna Vyroba. 1993, 39:12, p1095-1101 ISSN 0370-663X

Document type: Journal article.(C) CAB International

Suitability of the preparation Komplet S as a fertilizer for sugarbeet.

Jaszczko < l > t E (Instytut Przemys < l > u Cukrowniczego, Warsaw, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1992:No. 181-182, p213-224

Document type: Journal article.(C) CAB International

Seasonal dynamics of available forms of nutrient elements in the soil and yield of sugarbeet as dependent on fertilizers on southern chernozem under irrigated conditions.

Zarishnyak ASShiyan PN (All-Union Sugarbeet Research Institute, Kiev, Ukraine.)

Source: Agrokhimiya. 1991:No. 6, p27-36 , ISSN 0002-1881

Document type: Journal article.(C) CAB International

Foliar application of fertilizers and growth regulators to beet crops.

Pulkrabek J (Vysoka Skola Zemedelska, 160 < thin > 21 Prague-6, Czechoslovakia.

Source: Sbornik Vysoke Skoly Zemedelske v Praze, Fakulta Agronomicka. Rada A, Rostlinna Vyroba.

1991:No. 53, p175-182

Document type: Journal article.(C) CAB International

Effectiveness of foliar fertilization for sugarbeet.

Sdowski HWisniewski K (IHAR, Bydgoszcz, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1991:No. 177, p63-69

Document type: Journal article.(C) CAB International

Nutrient uptake in different irrigated crop rotations in light-textured soils of the Elbe river basin.

Simon J (Research Institute for Crop Production, 161 06 Praha-Ruzyne, Czech Republic.)

Source: Rostlinna Vyroba. 1994, 40:7, p595-605. ISSN 0370-663X

Document type: Journal article.(C) CAB International

The effect of light and temperature late in the season on the growth of sugar beet.

Milford, GFJ and Thorne, GN 1973.

Source: Annals of Applied Biology. 75, 419-425

Document type: Journal article.(C) CAB International

Varieties and seed treatments

Site of growing and performance of sugarbeet < dash > considerations on choosing varieties in relation to location.

Winner C (Institut fur Zuckerrubenforschung, 3400 Gottingen, German Federal Republic.)
Source: Zuckerindustrie. 1990, 115:1, p34-38 , ISSN 0344-8657
Document type: Journal article.(C) CAB International

Sugarbeet germplasm selected from the USDA collection.

Campbell LG (USDA-ARS, Fargo, North Dakota, USA.)
Source: North Dakota Farm Research. 1990, 47:6, p32-34 , ISSN 0097-5338
Document type: Journal article.(C) CAB International

Sugar beet variety trials.

(National Institute of Agricultural Botany, Huntingdon Road, Cambridge CB3 OLE, UK.)UK, National Institute of Agricultural Botany
Source: Committee Paper - Sugar Beet Research and Education Committee, Norfolk Agricultural Station. 1989:No. 2367, 23 pp.
Document type: Miscellaneous.(C) CAB International

Varieties selected for autumn, intermediate and spring sowing tested in Italian beet-growing districts.

Tugnoli V (Associazione Nazionale Bieticoltori, Italy.)
Source: Sementi Elette. 1994, 40:3-4, p39-46 ISSN 0037-1890
Document type: Journal article.(C) CAB International
Sugarbeet varieties for autumn sowing in the south of Italy. Three-year trials 1990-92.
Document type: Journal article.(C) CAB International

Breeding and performance of rhizomania resistant sugar beet.

Lewellen RTBiancardi E (USDA-ARS, Salinas, California, USA.)
Source: International Institute for Sugar Beet Research, 53rd winter congress, Brussels, Belgium, 14-15 February 1990.. 1990, p69-87
Document type: Conference paper.(C) CAB International

Beet breeding in the future.

Johansson E (Hilleshog AB, Landskrona, Sweden.)
Source: International Institute for Sugar Beet Research, 53rd winter congress, Brussels, Belgium, 14-15 February 1990.. 1990, p141-144
Document type: Conference paper.(C) CAB International

Sugar-beet seed steep treatments to improve germination under cold, wet conditions.

Durrant MJMash SJ (Brooms's Barn Experimental Station, Higham, Bury St.Edmunds, Suffolk, UK.)
Source: Plant Growth Regulation. 1991, 10:1, p45-55 , ISSN 0167-6903
Document type: Journal article.(C) CAB International

Varieties in trials.

(NIAB, Huntingdon Road, Cambridge CB3 0LE, UK.)UK, National Institute of Agricultural Botany
Source: Varieties in trials.. 1990, 78 pp. NIAB. Cambridge, UK
Document type: Miscellaneous.(C) CAB International

Mineral enriched sugar beet.

Bichsel SECleary MFOlson RF (Moorhead, MN, USA.)American Crystal Sugar Company
Source: United States Patent. 1990:US 4938974, 15 pp. (A 09.01.87-US-1755, P 03.07.90)
Document type: Patent.(C) CAB International

Comparison of seed priming techniques with regard to seedling emergence and Pythium damping-off in sugar beet.

Rush CM (Plant Pathology, Texas A & M University System, Texas Agricultural Experiment Station, Bushland, TX 79012, USA.)
Source: Phytopathology. 1991, 81:8, p878-882 , ISSN 0031-949X
Document type: Journal article.(C) CAB International

Characters of the new sugarbeet cultivar Rizor in rhizomania-infested fields.

Oshimi KUchino HSaito HKurosawa KNagashima SKawata TMori N (Nippon Sugar Beet Manufacturing Co. Ltd., Sapporo 060, Japan.)
Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1990: No. 32, p59-63 , ISSN 0912-1048
Document type: Journal article.(C) CAB International

Effect of different seed size fractions on germination in sugar beet (Beta vulgaris L.).

Milosevic MRajnprecht JDokic P (Institute of Field and Vegetable Crops, 21000 Novi Sad, Yugoslavia.)
Source: Seed Science and Technology. 1992, 20:3, p703-710 ISSN 0251-0952
Document type: Journal article.(C) CAB International

Beta genetic resources: North American activities.

Doney DL (USDA-ARS, Northern Crop Science Laboratory, Fargo, ND 58105, USA.)
Source: International Beta genetic resources network. A report on the 2nd International Beta Genetic Resources Workshop held at the Institute for Crop Science and Plant Breeding, Braunschweig, Germany, 24-28 June 1991
ISBN 92-9043-214-4 (International Crop Network Series No. 7)
Document type: Conference paper.(C) CAB International

A new efficient seed dressing agent for sugarbeet.

Bene LEori T (Beet Research Institute, Sopronhorpacs 'Betamag' Seed Ltd.,Nagyecenk, Hungary.)
Source: Novenytermeles. 1992, 41:3, p237-244
Document type: Journal article.(C) CAB International

NIAB recommended list of sugar beet 1995.

(NIAB, Huntingdon Road, Cambridge CB3 0LE, UK.)UK, National Institute of Agricultural Botany.

Source: NIAB recommended list of sugar beet 1995.. 1994, #3.00. National Institute of Agricultural Botany (NIAB). Cambridge, UK

Document type: Miscellaneous.(C) CAB International

Breeding for disease resistance in sugar beet.

Kimber D

Source: International Sugar Journal. 1993, 95:1138B, p406-408, 431 , 5 ref. ISSN 0020-8841

Document type: Journal article.(C) CAB International

Varieties for 1995.

Dixon TMcCullagh S (National Institute of Agricultural Botany, Huntingdon Road,Cambridge, UK.)

Source: British Sugar Beet Review. 1994, 62:2, p7-11 ISSN 0007-1854

Document type: Journal article.(C) CAB International

Importance of cultivar on performance of sugarbeet depending on site, region and year.

Wolf IMarlander B (Institut für Zuckerrubenforschung, 37079 Gottingen, Germany.

Source: Zuckerindustrie. 1994, 119:8, p671-678 ISSN 0344-8657

Document type: Journal article.(C) CAB International

Hilleshog breeding in England.

Kimber D

Source: British Sugar Beet Review. 1996, 64:1, p39-42 ISSN 0007-1854

Document type: Journal article.(C) CAB International

USDA-ARS sugarbeet releases.

Doney DL (USDA-Agricultural Research Service, Northern Crop Science Laboratory,Fargo, ND 58105, USA.)

Source: Journal of Sugar Beet Research. 1995, 32:4,ISSN 0899-1502

Document type: Journal article.(C) CAB International

The selection of sugarbeet varieties suitable for commercial cropping and milling on marginal soils in the Burdekin and Mackay sugarcane growing areas.

Morgan TE (CSR Ltd Kalamia Estate Ayr, Queensland 4807)

Source: RIRDC Final Report Project CSR-1 A. 1995. ISBN 0-646-24321-7

Document type: Research final report.

Sweeter times ahead for sugarbeet growers.

Kaffka SLeaux PGHall RD (Department of Agronomy and Range Science, University of California, Davis 95616-8515, USA.)

Source: Nature Biotechnology. 1996, 14:9, p1088

Document type: Journal article.(C) CAB International

Varieties for 1997.

Kerr S Leaman M (National Institute of Agricultural Botany, Huntingdon Road, Cambridge, UK.)
Source: British Sugar Beet Review. 1996, 64:2, p9-13 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Sugar beet variety trials, report for year ended 31st March 1991.

(National Institute of Agricultural Botany, Cambridge CB3 0LE, UK.)UK,
National Institute of Agricultural Botany
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991: No.2522, 21
Document type: Miscellaneous.(C) CAB International

Rhizomania: progress with resistant varieties.

Asher M Kerr S (IACR Broom's Barn, Highham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)
Source: British Sugar Beet Review. 1996, 64:2, p19-22 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Technical and commercial aspects of seed pelleting and film-coating.

Halmer P (Germain's (U.K.) Ltd., King's Lynn, Norfolk PE30 4LG, UK.)
Source: Monograph, British Crop Protection Council. 1988:No. 39, p191-204 (Application to seeds and soil, Proceedings of a symposium, University of Surrey, Guildford, 4-6 Jan. 1988)
Document type: Conference paper, Journal article.(C) CAB International

Seed advancement and the potential for greater sowing date flexibility.

Durrant M Mash S (Broom's Barn Exp. Sta., Higham, Bury St. Edmunds, Suffolk, UK.)
Source: British Sugar Beet Review. 1988, 56:4, p6-8 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Designer beet < dash > the impact of genetic engineering on sugar beet.

Newbury J Todd G Godwin I Ford-Lloyd B (School of Biological Sciences, Birmingham University, PO Box 363, Birmingham B15 2TT, UK.)
Source: British Sugar Beet Review. 1989, 57:4, p41-45. ISSN 0007-1854
Document type: Journal article.(C) CAB International

Improvement in sowing qualities of sugarbeet seeds with growth regulators.

Varshavs'ka V B Lenchevs'ka L K Korsun LI (N. G. Kholodny Institute of Botany, Kiev, Ukrainian SSR.)
Source: Ukrain'skii Botanichnii Zhurnal. 1991, 48:4, p71-75
Document type: Journal article. (C) CAB International

Tefluthrin:- a new seed treatment to protect sugar beet crops.

Cooke D Winder G Prince J Ecclestone P (Broom's Barn Experimental Station, UK.)
Source: British Sugar Beet Review. 1991, 59:2, p30-32 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Field evaluation of sugarbeet varieties against Cercospora leaf spot.

Rajpurohit TSSingh RD (Agricultural Research Station, Rajasthan Agricultural University, Jodhpur 342304, Rajasthan, India.)

Source: Indian Journal of Mycology and Plant Pathology. 1992, 22:3, p294-296 ISSN 0303-4097

Document type: Journal article.(C) CAB International

Post-war developments in sugar beet plant breeding.

Kimber D

Source: British Sugar Beet Review. 1993, 61:3, p29-32 ISSN 0007-1854

Document type: Journal article.(C) CAB International

Effect of seed treatment on emergence, growth, yield and yield components of sugarbeet.

Shafi MManan AAhmad BKhan SHassan SWAman K (Agronomy Department, NWFP Agricultural University, Peshawar, Pakistan.)

Source: Sarhad Journal of Agriculture. 1993, 9:1, p11-14

ISSN 1016-4383

Document type: Journal article.(C) CAB International

The effects of temperature on leaf growth of sugar beet varieties.

Milford, GFJ and Riley, J. 1980.

Source: Annals of Applied Biology, 94, 431-33.

Document type: Journal article.(C) CAB International

Yield and water balance of sugarbeet lines and hybrids.

Milosevic R (Poljoprivredni Fakultet, Trg Dositeja Obradovica 2, 21000 Novi Sad, Yugoslavia.)

Source: Bioloski Vestnik. 1991, 39:1-2, p121-124

Document type: Journal article.(C) CAB International

Improved crop establishment in sugar beet resulting from the use of tefluthrin.

Moran APainparay GCohadon P (ICI Agrochemicals, Bear Lane, Farnham, Surrey, GU9 7UB, UK.)

Source: Brighton Crop Protection Conference. Pests and Diseases - 1988. Vol. 3.1988, p997-1002 ,

Document type: Conference paper.(C) CAB International

Commercial considerations for the seed treatment of sugar beet.

Prince JWF (British Sugar plc, Agricultural Development Department, Holmewood Hall, Holme, Peterborough PE7 < thin > 3PG, UK.)

Source: Aspects of Applied Biology. 1986:No. 13, p151-158 , 14 ref. ISSN 0265-1491

Document type: Conference paper, Journal article.(C) CAB International

Thiram steep treatment for the control of Phoma betae.

Payne PA (Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 thin > 6NP, UK.)

Source: Aspects of Applied Biology. 1986:No. 13, p159-163 , 7 ref. ISSN 0265-1491

Document type: Conference paper, Journal article.(C) CAB International

Recent developments in sugar-beet seed treatments.

Dewar AM Asher MJC Winder GHPayne PA Prince JW (Broom's Barn Exp. Sta., Higham, Bury St Edmunds IP28 < thin > 6NP, UK.)

Source: Monograph - British Crop Protection Council. 1988:No. 39, p265-270, 12 ISSN 0306-3941

Document type: Conference paper, Journal article.(C) CAB International

New insecticides for sugar beet seed.

Winder GDewar A (Broom's Barn Exp. Sta., Bury St. Edmunds, UK.)

Source: British Sugar Beet Review. 1988, 56:4, p23-24. ISSN 0007-1854

Document type: Journal article.(C) CAB International

The sowing of sugar beet. Quality comes first.

Fuzy J

Source: Mezogazdasagi Technika. 1988, 28:4, p1-4 Agricultural Review, 1989, 38 (1), No. 150.)

Document type: Journal article.(C) CAB International

Dosage and release patterns of insecticides and fungicides in pelleted seed.

Huijbregts AWM Gijssels PD (Instituut voor Rationele Suikerproductie, Bergen op Zoom, Netherlands.)

Source: Congres d'Hiver, Institut International de Recherches Betteravieres. 1988:No. 52, p131-143,

Document type: Conference paper, Journal article.(C) CAB International

The control of seed and soil-borne fungi by fungicides in pelleted seed.

Asher MJC Payne PA (Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 < thin > 6NP, UK.)

Source: Congres d'Hiver, Institut International de Recherches Betteravieres. 1988:No. 52, p179-193

Document type: Conference paper, Journal article.(C) CAB International

Interactions between pelleting material, insecticides and fungicides.

Heijbroek W (Instituut voor Rationele Suikerproductie Bergen op Zoom, Netherlands.)

Source: Congres d'Hiver, Institut International de Recherches Betteravieres. 1988:No. 52, p213-220

Document type: Conference paper, Journal article.(C) CAB International

Effect of the age of sugarbeet seeds on their sowing value.

Jassem MBurduk T (Akademia Techniczno-Rolnicza, Bydgoszcz, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1988:No.167, p109-115, 12

Document type: Journal article.(C) CAB International

Planting and cultivation

Deep soil loosening effects on sugar beet performance.

Larney FJFortune RACIGR] Dublin Ireland 4-8 September 1989 [Dodd VA (ed.)Grace PM (ed.)
(Department of Agricultural Engineering, Teagasc, Oak Park Research Centre, Carlow, Irish Republic.)
Source: Agricultural engineering. Proceedings of the 11th international
congress on agricultural engineering. 1989, p1593-1598 ,ISBN 90-6191-980-0
Document type: Conference paper.(C) CAB International

Methods of sugarbeet cultivation in sodic soils.

Singhania RAMishra NPSharma RK (G.B. Pant University of Agriculture and
Technology, Pantnagar 263145, Uttar Pradesh, India.)
Source: Journal of the Indian Society of Soil Science. 1989, 37:2, p421-423 , ISSN 0019-638X
Document type: Journal article.(C) CAB International

A census of seedling establishment in sugar beet crops.

Durrant, MJ et al 1988.
Source: Annals of Applied Biology, 113, 327-45.
Document type: Journal article.(C) CAB International

Effect of plant density and harvesting time on yield and quality of sugarbeet in different climatic regions.

Er Cinan H (Tarla Bitkileri Bolumu, Ziraat Fakultesi, Ankara Universitesi,Ankara, Turkey.)
Source: Seker. 1989, 35:125, p39-48 , 47 ref.
Document type: Journal article.(C) CAB International

Influence of plant density on yield and quality and possible causes of competition in sugar beet crops.

Marlander B (A. Dieckmann-Heimburg, Saatzucht Sulbeck, 3065 Nienstadt, German Federal Republic.)
Source: Journal of Agronomy and Crop Science. 1990, 164:2, p120-130 ISSN 0931-2250
Document type: Journal article.(C) CAB International

Changes in the physical properties of soil on different systems of sugarbeet cultivation.

Dobrenov VMilosevic R (Faculty of Agriculture, Novi Sad, Yugoslavia.)
Source: Zemljiste i Biljka. 1988, 37:1, p1-9
Document type: Journal article.(C) CAB International

Soil crusting and its improvement: 1. Effect of three soil conditioners on penetration resistance and seedling emergence of sugarbeet.

Dougrameji JSAhmed FHJasim AA (Department of Soil Science, College of
Agriculture, Baghdad University, Abu-Graib, Iraq.)
Source: Journal of Agriculture and Water Resources Research, Soil and Water Resources. 1988, 7:1, p1-14
, ISSN 1012-3482
Document type: Journal article.(C) CAB International

Development of the root system during the growth period of sugarbeet.

Chochola J (OSEVA-Koncernovy Vyzkumny a Slechtitelsky Ustav Reparsky, 294 thin > 46 Semcice, Czechoslovakia.)

Source: Rostlinna Vyroba. 1990, 36:6, p637-642 ,

Document type: Journal article.(C) CAB International

Effect of seeding depth, herbicide, and variety on sugarbeet (*Beta vulgaris*) emergence, vigor, and yield.

Wilson RGSmith JAYonts CD (Univ. Nebraska, Scottsbluff, NE 69361, USA.)

Source: Weed Technology. 1990, 4:4, p739-742 , ISSN 0890-037X

Document type: Journal article.(C) CAB International

Comparison of sugarbeet planters and planting depth with two sugarbeet varieties.

Fornstrom KJMiller SD (University Station, Box 3295, Laramie, WY 82071, USA.)

Source: Journal of Sugar Beet Research. 1989, 26:3-4, p10-16 ISSN 0899-1502

Document type: Journal article.(C) CAB International

Sugar beet machinery.

Anon. 1988.

Source: Institute of Engineering Research Report to the Sugar beet Research and Education Committee. Committee paper 2298.

Document type: Research Report.(C) CAB International

Sugarbeet cultivation on light soils.

Deplate-Haarstrich HJ (Suderburg, Germany.)

Source: Zuckerrube. 1990, 39:2, p124-125]

Document type: Journal article.(C) CAB International

Effect of loosening and compacting on soil physical properties and sugar beet yield.

Pabin JSienkiewicz JWlodek S (Institute of Soil Science and Plant Cultivation,55-230 Jelcz-Laskowice, Poland.)

Source: Soil & Tillage Research. 1991, 19:2-3, p345-350 ISSN 0167-1987

Document type: Journal article.(C) CAB International

Sugarbeet response to subsoiling and wheel traffic.

Johnson BSErickson AE (Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824, USA.)

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Kapur MLKanwar RS (Punjab Agricultural University, Sugarcane Research Station, Jalandhar 144001, India.)

Source: Tropical Agriculture. 1994, 71:1, p12-16. ISSN 0041-3216

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Studies on the methods of irrigation and nitrogen application in sugarbeet.

Narang RSNathu SinghMehra SPSingh N (Department of Agronomy, Punjab Agricultural University, Ludhiana 141004, India.)

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Document type: Journal article.(C) CAB International

Nitrogen source regulation of growth and photosynthesis in Beta vulgaris

Raab TKTerry N (Department of Plant Biology, University of California, Berkeley, CA 94720, USA.)

Source: Plant Physiology. 1994, 105:4, p1159-1166 ISSN 0032-0889

Document type: Journal article.(C) CAB International

Nitrogen uptake by autumn sown sugar beet.

Lopez-Bellido LCastillo JEFuentes M (Dpto. de Ciencias y Recursos Agrícolas, Universidad de Cordoba, Cordoba, Spain.)

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Document type: Journal article.(C) CAB International

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Beiss UBurcky K (Institut für Zuckerrubenforschung, 37079 Göttingen, Germany.)

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Chen LJMa QCYang J (Institute of Sugarbeet, Chinese Academy of Agricultural Sciences, Hulan County, Heilongjiang, China.)

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Hayasaka MImura E (Research Center, Nippon Beet Sugar Manufacturing Company Ltd, Obihiro, 080, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1992: No. 34, p1-6 ISSN 0912-1048

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Carbon, nitrogen, and nutrient interactions in Beta vulgaris L. as influenced by nitrogen source, NO₃⁻ versus NH₄⁺.

Raab TK Terry N (Department of Plant Biology, University of California, Berkeley, California 94720, USA.)

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Houba VJGHuijbregts AWMWilting PNovozamsky IGort G (Department of Soil Science and Plant Nutrition, Wageningen Agricultural University, P.O. Box 8005, 6700 EC Wageningen, Netherlands.)

Source: Biology and Fertility of Soils. 1995, 19:1, p55-59

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Document type: Journal article.(C) CAB International

Effect of plant density, nitrogen and potassium fertilizers on growth characters of sugarbeet.

El-Din NANEdris ASAEI-Geddawy IHMEI-Shafei AMA (Agronomy Department, Faculty of Agriculture, Ain Shams University, Egypt.)

Source: Pakistan Sugar Journal. 1993, 7:1, p7-9

Document type: Journal article.(C) CAB International

Foliar nitrogen nutrition of sugarbeet.

Jaszczolt E (Instytut Przemysłu Cukrowniczego, Warsaw, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1994:No. 189, p25-31 ISSN 0373-7837

Document type: Journal article.(C) CAB International

The response of field crops to nitrogen fertilizer. II. Root crops.

Fotyma E (Zak <1> ad Nawozenia, IUNG, Pu <1> awy, Poland.)

Source: Pamietnik Pu <1> awski. 1990, publ. 1991:No. 96, p83-99

Document type: Journal article.(C) CAB International

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Sharif AEEghbal K (Agron. Dept., Faculty of Agric., Mansoura University, Mansoura, Egypt.)

Source: Agribiological Research. 1994, 47:3/4, p231-241 ISSN 0938-0337

Document type: Journal article.(C) CAB International

Plant density and nitrogen rate effects on sugar beet yield and quality early in harvest.

Lauer JG (Dep. of Plant, Soil and Insect Sciences, Univ. of Wyoming, UW-REC,747 Road 9, Powell, WY 82435, USA.)

Source: Agronomy Journal. 1995, 87:3, p586-591 ISSN 0002-1962

Document type: Journal article.(C) CAB International

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Schliephake WGarz JAbdallah M (Institut fur Bodenkunde und Pflanzenernahrung, Martin-Luther-Universitat Halle-Wittenberg, Julius-Kuhn-Strasse 31, 06112 Halle, Germany.)

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Document type: Journal article.(C) CAB International

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Czuba R (Zaklad Agrochemicznej Obslugi Rolnictwa, IUNG, 50-244 Wroclaw, Poland.

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An economic analysis of reducing nitrogen on early harvest sugarbeets.

Held LJBurgener PALauer JGMenkhau DJ (Agricultural Experiment Station, University of Wyoming, Laramie, WY 82071, USA.)

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Rabuffetti ALabuonora DGallardo Lancho JF (ed.) (Instituto Nacional de Investigacion Agropecuaria, INIA-Uruguay.)

Source: El estudio del suelo y de su degradacion en relacion con la desertificacion. Actas del 12 Congreso Latinoamericano de la Ciencia del Suelo, Salamanca, Sevilla (España) 19 a 26 de Septiembre de 1993.. 1993,

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Smit ABStruik PCNiejenhuis JHvanVan Niejenhuis JH (Wageningen Agricultural University, Department of Farm Management, De Leeuwenborch, Hollandseweg 1,NL-6706 KN Wageningen, Netherlands.)
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Allison MArmstrong M (IACR-Broom's Barn, Higham, Bury St. Edmunds IP28 6NP, UK.
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Eckhoff JLA (Montana State University, Eastern Agricultural Research Center,P.O. Box 1350, Sidney, MT 59270, USA.)
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An economic analysis of alternative nitrogen fertilization methods for sugarbeets.

Tassell LWvanYang BoZhengBlaylock ADVan Tassell LWYang BZ (Dep. of Agric.Economics, Univ. of Wyoming, Laramie, WY 82071-3354, USA.)
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Allison MFArmstrong MJJaggard KWTodd ADMilford GFJ (IACR-Broom's Barn, Higham,Bury St Edmunds, Suffolk IP28 6NP, UK.)
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Document type: Journal article.(C) CAB International

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Milosevic R (Poljoprivredni Fakultet, 21000 Novi Sad, Yugoslavia.)
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Moraghan JT (Dep. Soil Sci., North Dakota State Univ., Fargo, ND 58105, USA.)
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Anderson FNPeterson GA (Panhandle Exp. Sta., Univ. Nebraska, Scottsbluff, NE 69361, USA.)
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Halvorson ADHartman GP (USDA-ARS, P.O. Box. 400, Akron, CO 80720, USA.)
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Prasad UK (Rajendra Agric. Univ., Pusa, Samastipur-848125, Bihar, India.)
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Whitmore APMilford GFJArmstrong MJ (Rothamsted Exp. Sta., Harpenden, Herts.,AL5 2JQ, UK.)
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Hill WA Hauck RD (ed.) (Dep. of Agric. Sciences, Tuskegee Inst., AL, USA.)
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Qeleshi A (Institutin e Larte Bujqesor, Korce, Albania.)
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Document type: Journal article.(C) CAB International

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Diagnosis of nitrogen and potassium nutrition in relation to the quality of sugarbeet.

Baier J Smetankova M Bartosova Z Baierova V (Vuzkumny Ustav Rostlinne Vyroby, 16106 Prague-6, Czechoslovakia.)
Source: Rostlinna Vyroba. 1992, 38:3-4, p289-295
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Neeteson JJ (Institute for Soil Fertility, 9750 RA Haren, Netherlands.)
Source: Netherlands Journal of Agricultural Science. 1989, 37:3, p227-236 ISSN 0028-2928
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Effect of preceding crop on nitrogen fertilization of sugarbeet (*Beta vulgaris*) in Punjab.

Kapur ML Kanwar RS (Sugarcane Research Station, Jalandhar 144001, Punjab, India.
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Document type: Journal article.(C) CAB International

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Pulkrabek J (Vysoka Skola Zemedelska, 165 < thin > 21 Prague 6-Suchdol, Czechoslovakia.)
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Document type: Journal article.(C) CAB International

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Wojcik S (Instytut Uprawy Roli i Roslin, AR, Lublin, Poland.)
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1990, 107:4, p79-90
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Baumgartel G (Institut für Pflanzenernährung der Universität Hannover, Herrenhauser Str. 2, 3000 Hannover 21, German Federal Republic.)
Source: Zeitschrift für Pflanzenernährung und Bodenkunde. 1989, 152:6, p447-452
Document type: Journal article.(C) CAB International

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Jaszczko < 1 > t E (Instytut Przemys < 1 > u Cukrowniczego, Warsaw, Poland.)
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1990, 107:4, p91-104
Document type: Journal article.(C) CAB International

Phosphorus fertilization of sugarbeet in subtropical India.

Kapur MLKanwar RS (Punjab Agricultural University, Sugarcane Research Station, Kalandhar 14401, India.)
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Interactions of nitrogen and phosphorus fertilizers for sugarbeet production.

Qeleshi A (Institutin e Larte Bujqesor, Korce, Albania.)
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Document type: Journal article.(C) CAB International

Studies on sugarbeet nutrition. 10. Effects of different concentrations of phosphate application on the yield and quality of sugarbeet.

Hayasaka MImura E (Research Centre, Nippon Beet Sugar Manufacturing Co. Ltd., Obihiro 080, Japan.)
Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1990: No. 32, p47-52 , ISSN 0912-1048
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Allison MChapman J (IACR-Broom's Barn, Higham, Bury St. Edmunds IP28 6NP, UK.)
Source: British Sugar Beet Review. 1995, 63:4, p12-14 ISSN 0007-1854
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Document type: Journal article.(C) CAB International

Nutrition - Potassium

Effect of potassium fertilizer on yield and quality of sugarbeet. Effect on root yield.

Milcheva MMarinov M (N. Pushkarov Institute of Soil Science and Yield Programming, Sofia, Bulgaria.)

Source: Pochvoznanie i Agrokimiya. 1990, 25:1, p21-29 ,

Document type: Journal article.(C) CAB International

Influence of different rates of potassium supply on the yield and quality of sugarbeet.

Orlovius K (Kali und Salz AG, Landwirtschaftliche Beratung, 3500 Kassel, Germany.)

Source: Mitteilungen der Gesellschaft fur Pflanzenbauwissenschaften. 1989, 2, p33-36

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Milcheva MM (N. Pushkarov Institute of Soil Science and Yield Programming,Sofia, Bulgaria.)

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Kandil AALieth H (ed.)Al-Masoom AA (ed.) (Department of Agronomy, Faculty of Agriculture, El-Mansoura University, El-Mansoura, Egypt.)

Source: Towards the rational use of high salinity tolerant plants. Volume 2. Agriculture and forestry under marginal soil water conditions. Proceedings of the ASWAS conference, 8-15 December 1990, Al Ain, United Arab Emirates. 1993, p199-207 Netherlands. ISBN 0-7923-1866-8

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Kasap YK < dotless i > Il < dotless i > F (Tarla Bitkileri Bolumu, Kahramanmaras Sutcu Imam Universitesi, Kahramanmaras, Turkey.)

Source: Turkish Journal of Agriculture & Forestry. 1994, 18:2, p107-110

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Chochola J (Vyzkumny a Slechtitelsky Ustav Reparsky, 294 < thin > 46 Semcice,Czechoslovakia.)

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Kral'ovic J (Institute of Experimental Phytopathology and Entomology, Centre of Biological and Ecological Sciences, SAS, Ivanka-pri-Dunaji, Czechoslovakia.)
Source: Pol'nohospodarstvo. 1989, 35:7, p615-622
Document type: Journal article.(C) CAB International

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Studies on the physiology and biochemistry of iron stress in *Beta vulgaris* L.

Arulamantham AR (University of California, Berkeley, CA 94720, USA.)
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Document type: Journal article.(C) CAB International

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Shumilova AAMagomedov IM (Biological Institute, A.A. Zhdanov Leningrad State University, Leningrad, USSR.)
Source: Fiziologiya i Biokhimiya Kul'turnykh Rastenii. 1989, 21:1, p13-17
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Mehrotra NKKhan SAAgarwala SC (Botany Department, Lucknow University, Lucknow 226007, Uttar Pradesh, India.)
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Document type: Journal article.(C) CAB International

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Hudcova M (Vyzkumny Ustav Rostlinne Vyroby, 664 < thin > 62 Hrusovany u Brna, Czechoslovakia.)
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Effect of boron fertilization on yield and quality of sugarbeet (*Beta vulgaris* L.).

Narayan DChandel ASSingh GR (Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar 263145, Uttar Pradesh, India.)
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Document type: Journal article.(C) CAB International

The response of sugar beet leaf growth and its ionic composition to sodium chloride.

Yasseen BTJurjees JADawoud JS (Department of Biology, College of Science, Mosul University, Mosul, Iraq.)

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Hassanin MAAbuldahab A (Faculty of Agriculture, Cairo University, Giza, Egypt.)

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Rudolf M (VSUR, Semcice, Czech Republic.)

Source: Listy Cukrovarnicke a Reparske. 1992, 108:9, p194-196

Document type: Journal article.(C) CAB International

The results of foliar nutrition of field crops. II. Response of plants to foliar application of trace elements or nitrogen combined with trace elements.

Czuba R (Zaklad Agrochemicznej Obslugi Rolnictwa, IUNG, 50-244 Wroclaw, Poland.)

Source: Roczniki Gleboznawcze. 1994, 45:3/4, p79-87, ISSN 0080-3642

Document type: Journal article.(C) CAB International

Responses of sugar beet (*Beta vulgaris*) to foliar sprays of copper.

Allison MFLast PJBean KMR (IACR-Broom's Barn, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: Journal of the Science of Food and Agriculture. 1996, 72:2, p219-225 ISSN 0022-5142

Document type: Journal article.(C) CAB International

Early iron deficiency stress response in leaves of sugar beet.

Winder TLNishio JN (Department of Botany, University of Wyoming, Laramie, WY 82071-3165, USA.)

Source: Plant Physiology. 1995, 108:4, p1487-1494, 39 ref. [English]. ISSN 0032-0889

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Effect of planting date, nitrogen fertilizer and harvest date on seasonal concentrations and total content of five micronutrients in sugarbeet.

Bravo SLeegSSchmehl WR (Department of Agronomy, Colorado State University, Fort Collins, CO 80523, USA.) Source: Journal of Sugar Beet Research. 1992, 29:1-2, p45-57 ISSN 0899-1502

Pests

An inventory of pests attacking sugarbeet in Iran.

Kheyri M (Plant Pests and Diseases Research Institute, PO Box 19395-1454, Tehran, Iran.)
Source: Entomologie et Phytopathologie Appliquees. 1989, 56:1-2, 25, pe 75-91
Document type: Journal article.(C) CAB International

Sugar beet production and pest management practices in the Big Horn Basin of Wyoming.

Legg DEVincelli PC (Department of Plant, Soil and Insect Sciences, P.O. Box 3354, University of Wyoming, Laramie, WY 82071, USA.)
Source: Journal of Sugar Beet Research. 1989, 26:3-4, p17-31 ISSN 0899-1502
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Effect of annual use of pesticides on soil microorganisms and sugarbeet yields.

Heinonen-Tanski HSimojoki PRaininko KNuormala NSilvo R (Department of Environmental Engineering, University of Kuopio, POB 6, 70211 Kuopio, Finland.)
Source: Journal of Agricultural Science in Finland. 1989, 61:1, p45-53 , 44 ISSN 0782-4386
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Evaluating the use of pest management information by growers: an example using Cercospora leaf spot of sugarbeet.

Weiss AKerr ED (Center for Agricultural Meteorology and Climatology, University of Nebraska, Lincoln, NE, USA.)
Source: Applied Agricultural Research. 1989, 4:3, p168-172 ISSN 0179-0374
Document type: Journal article.(C) CAB International

Occurrence of the sugarbeet cyst nematode, Heterodera schachtii.

Salih H (Dept. Pl. Prot., Faculty of Agriculture, University of Jordan, Amman, Jordan.)
Source: Arab and Near East Plant Protection Newsletter. 1987:No. 4, p16
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Insect pests of beet. Prospects for control.

Pollini A (Observatorio Malattie delle Piante, Regione Emilia-Romagna, Italy.)
Source: Terra e Sole. 1989, 44:559, p189-198 ISSN 0040-3768
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Integrated control of sugarbeet nematodes.

Heinicke D (Pflanzenschutzamt, Landwirtschaftskammer, Hannover, German Federal Republic.)
Source: Pflanzenschutz-Praxis. 1989:No. 1, p31-33 [
Document type: Journal article.(C) CAB International

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(Post Bag 209, UPM Post, Serdang, Selangor, Malaysia.)Malaysia, ASEAN Plant Quarantine Centre and Training Institute.

Source: PLANTI News. 1987, 6:3, p16 ISSN 0127-306X

Document type: Journal article.(C) CAB International

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Cooke D (Broom's Barn Experimental Station, Suffolk, UK.)

Source: British Sugar Beet Review. 1990, 58:3, p4-7 ISSN 0007-1854

Document type: Journal article.(C) CAB International

The influence of agricultural rotation on the cyst nematode, *Heterodera schachtii* of sugarbeet.

Skende D (Institutin e Larte Bujqesor, Korce, Albania.)

Source: Buletini i Shkencave Bujqesore. 1989, 28:4, p129-135 ,

Document type: Journal article.(C) CAB International

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Dexter AG (North Dakota State University, Fargo, ND 58105, USA.)

Source: Sugar Journal. 1991, 54:6, p5-8 ISSN 0039-4734

Document type: Journal article.(C) CAB International

Requirements for the assessment of soil population densities of the sugar beet cyst nematode (*Heterodera schachtii*) with regard to the damage threshold in sugar beet.

Muller J (Biologische Bundesanstalt fur Land- und Forstwirtschaft, Insitut fur Nematologie und Wirbeltierkunde, Topheideweg 88, 4400 Munster, Germany.)

Source: Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz. 1990, 97:6, p563-569

Document type: Journal article.(C) CAB International

Pests of sugar beet in the UK.

Cooke DA (AFRC Institute of Arable Crops Research, Broom's Barn Experimental Station, Higham, Bury St. Edmonds, Suffolk IP28 6NP, UK.)

Source: Agricultural Zoology Reviews. 1992, 5, p97-137 , ISSN 0269-0543

Document type: Journal article.(C) CAB International

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Crump D (AFRC Institute of Arable Crops Research, Rothamsted Experimental Station, Harpenden, Herts., UK.)

Source: British Sugar Beet Review. 1991, 59:1, p54-55 ISSN 0007-1854

Document type: Journal article.(C) CAB International

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Winder GHDewar AMDunning RA (Broom's Barn Experimental Station, Higham, Bury St Edmunds, Suffolk IP28 6NP, UK.)

Source: Crop Protection. 1993, 12:2, p148-154 , 13 ref. ISSN 0261-2194

Document type: Journal article.(C) CAB International

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Altmann R (Bayer AG, Geschäftsbereich Pflanzenschutz, Vertrieb, Produktmanagement, 5090 Leverkusen, Bayerwerk, Germany.)

Source: Pflanzenschutz-Nachrichten Bayer. 1991, 44:2, p159-174

Document type: Journal article.(C) CAB International

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Kerr ED (University of Nebraska Panhandle Research and Extension Center, 4502 Ave. I, Scottsbluff, NE 69361, USA.)

Source: Fungicide and Nematicide Tests. 1990, publ. 1991, 46, p197

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Document type: Journal article.(C) CAB International

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Khan M (Sugar Crops Research Institute, Mardan, Pakistan.)

Source: Pakistan Sugar Journal. 1992, 6:4, p7-9

Document type: Journal article.(C) CAB International

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Weismann L' (Ustav Experimentálnej Fytopatologie a Entomologie SAV, Ivanka pri Dunaji, Slovakia.)

Source: Listy Cukrovarnicke a Reparske. 1996, 112:5, p132-136

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Document type: Journal article.(C) CAB International

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Source: Plant diseases of international importance, vol. IV: Diseases of sugar, forest, and plantation crops]. 1992, p103-137

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Document type: Miscellaneous(C) CAB International

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Source: British Sugar Beet Review. 1997, 65:1, p14-19 ISSN 0007-1854

Document type: Journal article.(C) CAB International

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Lange WH (Dep. Entomology, Univ. California, Davis, CA 95616, USA.)

Source: Annual Review of Entomology. 1987, 32, p341-360

ISSN 0066-4170

Document type: Journal article.(C) CAB International

Diseases - General

Diseases of sugarbeet and their control.

Mukhopadhyay ANUpadhyay JPRaychaudhuri SP (ed.)Verma JP (ed.) (Department of Plant Pathology, GB Pant University of Agriculture and Technology, Pantnagar 263145, India.)

Source: Review of tropical plant pathology. Volume 3.. 1986, publ. 1987,

p267-319 , 13 pp. of ref. Today and Tomorrow's Printers and Publishers. New Delhi, India. ISBN 81-7019-302-8 Document type: Miscellaneous.(C) CAB International

Disease resistance in sugar beet varieties.

Priestley RHThomas JESweet JB (National Institute of Agricultural Botany,Cambridge CB3 < thin > 01E, UK.)

Source: Aspects of Applied Biology. 1986:No. 13, p139-149 , 10 ref. ISSN 0265-1491

Document type: Conference paper, Journal article.(C) CAB International

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Puscasu A (Pl. Prot. Inst., Bucharest, Romania.)

Source: Analele Institutului de Cercetari pentru Protectia Plantelor. 1988, 21,p171-184 ,

Document type: Journal article.(C) CAB International

The beet example in the area of plant protection.

Buanec Ble (BP 1 Chappes, 63720 Ennezat, France.)

Source: Comptes Rendus de l'Academie d'Agriculture de France. 1988, 74:7, p41-48 ,

Document type: Journal article.(C) CAB International

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Clark EE (Aerial Photography Unit, Agricultural Development and Advisory Service, Brooklands Avenue, Cambridge CB2 < thin > 2DR, UK.)

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Document type: Conference paper, Journal article.(C) CAB International

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Source: British Sugar Beet Review. 1995, 63:1, p34-38 ISSN 0007-1854

Document type: Journal article.(C) CAB International

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Stevens MDewar A (IACR, Broom's Barn, Suffolk, UK.)
Source: British Sugar Beet Review. 1996, 64:2, p34-38 ISSN 0007-1854
Document type: Journal article.(C) CAB International

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Source: British Sugar Beet Review. 1996, 64:1, p28-32 ISSN 0007-1854
Document type: Journal article.(C) CAB International

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Whitney EDDuffus JE (ARS, USDA, Salinas, CA 93905, USA.)
Source: Compendium of beet diseases and insects.. 1986, viii + 76pp.
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USA. ISBN 0-89054-070-5 (31 col. pl., 36 fig.)
Document type: Book.(C) CAB International

Studies on certain sugar beet seedling diseases in Egypt.

Kazzaz-El MKAbdel-Hadi MAEl-Kewey SAEI-Zahaby HMM (Department of Agricultural Botany, Faculty of Agriculture, Tanta University, Kafr Al-Sheikh, Egypt.)
Source: Proceedings of the First Conference of the Agricultural Development Research. 1987, 3:1, p172-183
Document type: Conference paper, Journal article.(C) CAB International

Diseases - Viral

Comparative studies of the sugar beet yellowing viruses: field incidence and effect on yield.

Smith HG (Broom's Barn Experimental Station, Higham, Bury St Edmunds IP28 thin > 6NP, UK.)
Source: Aspects of Applied Biology. 1986:No. 13, p107-113 , 12 ref. ISSN 0265-1491

The occurrence and control of sugar-beet powdery mildew.

Asher MJC (Broom's Barn Experimental Station, Higham, Bury St Edmunds IP28 thin > 6NP, UK.)
Source: Aspects of Applied Biology. 1986:No. 13, p131-137 , ISSN 0265-1491
Document type: Conference paper, Journal article.(C) CAB International

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Reinhardt IRichter KWiesner KKrause MRichter J (Inst. Phytopath., 4320 Aschersleben, German Democratic Republic.)
Source: Archiv fur Phytopathologie und Pflanzenschutz. 1989, 25:2, p115-121
Document type: Journal article.(C) CAB International

The spread of the resistant aphid.

Smith SFurk C (Insecticides and Fungicides Department, Rothamsted Experimental Station, Harpenden, Herts., AL5 2JQ, UK.)

Source: British Sugar Beet Review. 1989, 57:2, p4-6 , ISSN 0007-1854

Document type: Journal article.(C) CAB International

Optimized method for routine detection of beet mild yellowing virus.

Richter K (Institut fur Phytopathologie Aschersleben der AdL der DDR, Theodor-Roemer-Weg, 4320 Aschersleben, German Democratic Republic.)

Source: Archiv fur Phytopathologie und Pflanzenschutz. 1989, 25:3, p243-249

Document type: Journal article.(C) CAB International

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Dewar A (Broom's Barn Exp. Sta., MAFF, Suffolk, UK.)

Source: British Sugar Beet Review. 1989, 57:1, p41-43 , ISSN 0007-1854

Document type: Journal article.(C) CAB International

Beet necrotic yellow vein virus, causal agent of sugarbeet rhizomania.

Putz CMerdinoglu DLemaire OStocky GValentin PWiedemann S (Laboratoire de Pathologie Vegetale, Station de Recherches sur les Grandes Cultures, Institut National de la Recherche Agronomique, 28 rue de Herrlisheim, BP 507, 68021 Colmar Cedex, France.)

Source: Review of Plant Pathology. 1990, 69:5, p247-254 ISSN 0034-6438

Document type: Journal article.(C) CAB International

Economic significance of sugarbeet root aphid, Pemphigus populivenerae Fitch (Homoptera: Aphididae) in California

Summers CGNewton AS (Dep. Entomological Sci., Univ. California, Berkeley, USA)

Source: Applied Agricultural Research. 1989, 4:3, p162-167 ISSN 0179-0374

Document type: Journal article.(C) CAB International

The incubation period of beet yellowing viruses in sugarbeet under field conditions.

Werf Wvan derKempenaar CPeters D (Department of Virology, Wageningen Agricultural University, P.O. Box 8045, 6700 EM Wageningen, Netherlands.)

Source: Netherlands Journal of Plant Pathology. 1989, 95:5, p241-258 , ISSN 0028-2944

Document type: Journal article.(C) CAB International

Forecasting the incidence of virus yellows in sugar beet in England.

Harrington RDewar AMGeorge B (AFRC Institute of Arable Crops Research, Entomology and Nematology Department, Rothamsted Experimental Station, Harpenden AL5 < thin > 2JQ, UK.)

Source: Annals of Applied Biology. 1989, 114:3, p459-469 ISSN 0003-4746

Document type: Journal article.(C) CAB International

Distribution and infectivity of yellowing viruses in field-grown sugar-beet plants.

Smith HG (Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 6NP, UK.)
Source: Annals of Applied Biology. 1989, 114:3, p481-487 ISSN 0003-4746
Document type: Journal article.(C) CAB International

The effects of yellowing viruses on yield of sugar beet in field trials, 1985 and 1987.

Smith HG Hallsworth PB (Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 6NP, UK.)
Source: Annals of Applied Biology. 1990, 116:3, p503-511, ISSN 0003-4746
Document type: Journal article.(C) CAB International

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Source: British Sugar Beet Review. 1990, 58:1, p15-19, ISSN 0007-1854
Document type: Journal article.(C) CAB International

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Source: Committee Paper - Sugar Beet Research and Education Committee. 1989:No. 2371,
Document type: Annual report.(C) CAB International

Report of the investigation of methods for the rapid detection of beet necrotic yellow vein virus in soil.

Adams MJ Henry CM (Plant Pathology Department, Central Science Laboratory, Harpenden, UK.)
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2532, 21 pp.
Ministry of Agriculture, Fisheries and Food Harpenden, UK
Document type: Miscellaneous.(C) CAB International

The use of ELISA for detecting viruses in sugar beet and aphids.

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Source: 53rd Winter Congress, International Institute for Sugar Beet Research. Brussels, Palais des Congres,
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Document type: Conference paper.(C) CAB International

New active ingredients for controlling aphids and virus yellows in sugar beet.

Dewar AM (IACR, Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 6NP, UK.)
Source: 53rd Winter Congress, International Institute for Sugar Beet Research. Brussels, Palais des
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Document type: Conference paper.(C) CAB International

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Rush CM Heidel GB (Texas Agricultural Experiment Station, Bushland, TX 79012, USA.)
Source: Plant Disease. 1995, 79:9, p868-875 ISSN 0191-2917
Document type: Journal article.(C) CAB International

The long hot summer spawns a red menace.

Dewar AHaylock L (IACR, Broom's Barn, UK.)
Source: British Sugar Beet Review. 1995, 63:4, p20-22 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Damping-off of sugar beet caused by *Rhizoctonia cerealis*.

O'Sullivan EKavanagh JA (Plant Pathology/Entomology Department, Teagase, Oak Park Research Centre, Carlow, Irish Republic.)
Source: Plant Pathology. 1990, 39:1, p202-205 , ISSN 0032-0862
Document type: Journal article.(C) CAB International

In-bed fumigation for control of rhizomania of sugar beet.

Martin FNWhitney ED (Department of Plant Pathology, Univeristy of Florida,Gainesville, FL 32611, USA.)
Source: Plant Disease. 1990, 74:1, p31-35 ISSN 0191-2917
Document type: Journal article.(C) CAB International

Rhizomania < dash > recent progress in research.

Richard-Molard M (Institut Technique Francais de la Betterave Industrielle, Paris, France.)
Source: Congres d'Hiver, Institut International de Recherches Betteravieres. 1988:No. 52, p241-248
Document type: Conference paper, Journal article.(C) CAB International

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Camangi PC (Istituto di Patologia Vegetale, Universita di Bologna, Italy.)
Source: Informatore Fitopatologico. 1988, 38:10, p33-39 ,ISSN 0020-0735
Document type: Journal article.(C) CAB International

Rhizomania: progress with resistant varieties.

Asher M (Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6MP, UK.)
Source: British Sugar Beet Review. 1989, 57:4, p16-19. ISSN 0007-1854
Document type: Journal article.(C) CAB International

Rhizoctonia root rot decline in sugarbeet monoculture.

Hyakumachi MKanzawa KUi THornby D (ed.) (Faculty of Agriculture, Gifu University, 1-1 Yanagido, Gifu 501-11, Japan.)
Source: Biological control of soil-borne plant pathogens. 1990, p227-247
Document type: Conference paper.(C) CAB International

Rhizomania, a serious threat to the British sugar industry.

Pemberton AW (Minist. Agric., Harpenden Lab., Hatching Green, Harpenden, AL52BD, UK.)
Source: Sementi Elette. 1988, 34:1-2, p5-7 , ISSN 0037-1890
Document type: Journal article.(C) CAB International

Protective measures against the introduction and spread of rhizomania in the territory of the EEC.

Valvassori M

Source: Sementi Elette. 1988, 34:1-2, p9-11 ISSN 0037-1890

Document type: Journal article.(C) CAB International

Influence of previous crops on Rhizoctonia root crown rot of sugar beet.

Rush CMWinter SR (Texas A & M University, Texas Agricultural Experiment Station, P.O. Drawer 10, Bushland, TX 79012, USA.)

Source: Plant Disease. 1990, 74:6, p421-425 , ISSN 0191-2917

Document type: Journal article.(C) CAB International

A COBB-compatible programme for aiding vector control in winter barley, sugarbeet and potato

Kastirr RMaurer SGeissler KFritzsche R (Institut für Phytopathologie

Aschersleben der Akademie der Landwirtschaftswissenschaften der DDR,

Aschersleben, German Democratic Republic)

Source: Feldwirtschaft. 1988, 29:10, p455-456 ISSN 0014-9799

Document type: Journal article.(C) CAB International

The incidence of Polymyxa betae and other fungal root parasites of sugar-beet in Britain.

Payne PAAsher MJC (AFRC Institute of Arable Crops Research, Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 6NP, UK.)

Source: Plant Pathology. 1990, 39:3, p443-451 , ISSN 0032-0862

Document type: Journal article.(C) CAB International

Control of damping-off in cress and sugar-beet by commercial seed-coating with Pythium oligandrum.

McQuilken MPWhipps JMCooke RC (Department of Animal and Plant Sciences, University of Sheffield, Sheffield S10 2TN, UK.)

Source: Plant Pathology. 1990, 39:3, p452-462 , ISSN 0032-0862

Document type: Journal article.(C) CAB International

Report on the trials of rhizomania tolerant varieties.

McCullagh S (National Institute of Agricultural Botany, Cambridge, UK.)

Source: British Sugar Beet Review. 1990, 58:1, p38-39 ISSN 0007-1854

Document type: Journal article.(C) CAB International

Studies on the control of Rhizoctonia root rot of sugar beets. 11. Influence of climatic factors on the occurrence of root rot.

Uchino HKanzawa K (Research Centre, Nippon Beet Sugar Mfg. Co., Ltd., Obihiro 080, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1988: No. 30, p100-107 , ISSN 0912-1048

Document type: Journal article.(C) CAB International

Forecasting the national incidence of sugar-beet powdery mildew from weather data in Britain.

Asher MJWilliams GE (AFRC Institute of Arable Crops Research, Broom's Barn Experimental Station, Higham, Bury St. Edmunds IP28 6NP, UK.)

Source: Plant Pathology. 1991, 40:1, p100-107 , ISSN 0032-0862

Document type: Journal article.(C) CAB International

Characteristics and pathogenicity of isolates of *Rhizoctonia* spp. Associated with damping-off of sugar beet.

O'Sullivan EKavanagh JA (Plant Pathology/Entomology Department, Oak Park Research Center, Carlow, Irish Republic.)

Source: Plant Pathology. 1991, 40:1, p128-135 ISSN 0032-0862

Document type: Journal article.(C) CAB International

Preliminary studies on sugarbeet varieties sensitive and tolerant of rhizomania, in combination with various nitrogen rates.

Rosso FBarbanti LVaccari GMantovani GCampi A

Source: Industria Saccarifera Italiana. 1990, 83:3, p91-104 ISSN 0019-7734

Document type: Journal article.(C) CAB International

Rhizomania - recent research and its implications.

Asher MPeck B (Broom's Barn Experimental Station, UK.)

Source: British Sugar Beet Review. 1990, 58:3, p30-32. ISSN 0007-1854

Document type: Journal article.(C) CAB International

Quality of sugar beets infected with rhizomania.

Uchino HFujisaki HKanzawa K (Research Center, Nippon Beet Sugar Manufacturing Co. Ltd., Obihiro 080, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1990: No. 32, p64-68 ISSN 0912-1048

Document type: Conference paper.(C) CAB International

The effect of sowing date on infection of sugar beet by *Polymyxa betae*.

Blunt SJAsher MJCGilligan CA (Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk, IP28 < thin > 6NP, UK.)

Source: Plant Pathology. 1992, 41:2, p148-153 , ISSN 0032-0862

Document type: Journal article.(C) CAB International

Determining the risk of damping-off in sugar beets.

Ewaldz T (Swedish University of Agricultural Sciences, Department of Plant and Forest Protection, Box 44, S-230 53 Alnarp, Sweden.)

Source: Bulletin OILB/SROP. 1992, 15:1, p169-171

Document type: Conference paper, Journal article.(C) CAB International

Controlling leaf diseases: powdery mildew.

Asher MWilliams G (Broom's Barn Experimental Station, UK.)

Source: British Sugar Beet Review. 1992, 60:3, p35-37 [English]. ISSN 0007-1854

Document type: Journal article.(C) CAB International

Rhizomania - its effect on sugar beet yield in the UK.

Henry C (Central Science Laboratory, Hatching Green, Harpenden, UK.)
Source: British Sugar Beet Review. 1996, 64:2, p24-26 ISSN 0007-1854
Document type: Journal article.(C) CAB International

First report of rhizomania of sugar beet from Texas.

Duffus JELiu HY (Sugarbeet Production Res. Unit, USDA-ARS, Salinas, CA 93905,USA.)
Source: Plant Disease. 1987, 71:6, p557 ISSN 0191-2917
Document type: Journal article.(C) CAB International

Etiology of a root rot disease of sugar beet in Texas.

Martyn RDRush CMBiles CLBaker EH (Department of Plant Pathology and Microbiology, Texas A & M University College Station, TX 77843, USA.)
Source: Plant Disease. 1989, 73:11, p879-884 , ISSN 0191-2917
Document type: Journal article.(C) CAB International

Chemical control of Cercospora leaf spot of sugarbeet.

Rajpurohit TSSingh RD (Agricultural Research Station, Rajasthan Agricultural University, Jodhpur 342 304, India.)
Source: Indian Journal of Mycology and Plant Pathology. 1993, 23:1, p42-45 ISSN 0303-4097
Document type: Journal article.(C) CAB International

Rhizomania: British Sugar's response and action.

Brisbourne D
Source: British Sugar Beet Review. 1987, 55:4, p8-9 ISSN 0007-1854
Document type: Journal article.(C) CAB International

Weed control

Studies on mechanical weed control in sugarbeet.

Haberland R (Institut für Rubenforschung, Akademie der Landwirtschaftswissenschaften, 3105 Klein Wanzleben, German Democratic Republic.)

Source: Nachrichtenblatt für den Pflanzenschutz in der DDR. 1989, 43:9, p183-187 , Document type: Journal article.(C) CAB International

Some practical experiences of controlling volunteer potatoes in sugar beet and some other crops.

Williams PG (British Sugar plc, Agricultural Development Department, Holmewood.Hall, Holme, Peterborough, PE7 3PG, UK.)

Source: Aspects of Applied Biology. 1986:No. 13, p195-199 , 10 ref. ISSN 0265-1491
Document type: Conference paper, Journal article.(C) CAB International

Identification of the development stages of beet and weeds for herbicide treatments.

Misonne JFSchaufele WR (Institut Royal Belge pour l'Amélioration de la Betterave, Tienen, Belgium.)

Source: Congrès d'Hiver, Institut International de Recherches Betteravières.1989:No. 52, p289-305 , 6 ref.
Document type: Journal article.(C) CAB International

A computerised decision support system for sugar beet herbicide selection.

Edwards-Jones GMumford JDNorton GATurner RProctor GHMay MJ (Silwood Pest Management, Imperial College, Silwood Park, Ascot, Berks SL5 7PY, UK.)

Source: Proceedings of the Brighton Crop Protection Conference, Weeds.. 1989:Vol. 2, p561-566 , ISBN 0-948404-37-X

Document type: Conference paper.(C) CAB International

Weed control and labor requirements in sugarbeets.

Miller SDFornstrom KJ (Department of Plant, Soil and Insect Sciences, Box 3354,University of Wyoming, Laramie, WY 82071, USA.)

Source: Journal of Sugar Beet Research. 1989, 26:3-4, p1-9 , ISSN 0899-1502

Document type: Journal article.(C) CAB International

Herbicide resistance in sugarbeet - which compounds?

Wevers JMisonne JF (Institut Rationelle Zuckerproduktion, Bergen op Zoom,Netherlands.)

Source: PSP Pflanzenschutz Praxis. 1989:No. 4, p23-25 [German]

Document type: Journal article.(C) CAB International

The influence of some dominant weeds on beneficial and pest arthropods in a sugarbeet field.

Bosch J (Landesanstalt für Pflanzenschutz, 7000 Stuttgart 1, German Federal Republic.)

Source: Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz. 1987, 94:4, p398-408 ,

Document type: Journal article.(C) CAB International

The use of mineral adjuvant oil with post-emergence applications of met amitron plus phenmedipham for weed control in sugar beet.

May MJ Armstrong MJBuckley D (Norfolk Agricultural Station, Morley, Wymondham, Norfolk, NR18 9DB, UK.)

Source: Proceedings of the Brighton Crop Protection Conference, Weeds.. 1989:Vol. 3, p817-822 , ISBN 0-948404-38-8 Document type: Conference paper.(C) CAB International

Experiences and recommendations for chemical weed control with the tank mixture Betanal + Falimorph in fodder and sugar beet.

Jentsch J Stockel C Schutte H (VEB Fahlberg-List, Magdeburg, German Democratic Republic.)

Source: Nachrichtenblatt fur den Pflanzenschutz in der DDR. 1990, 44:2, p40-41

Document type: Journal article.(C) CAB International

Success with weed beet control.

Wroth C

Source: British Sugar Beet Review. 1990, 58:1, p50-51 ISSN 0007-1854

Document type: Journal article.(C) CAB International

Weed control chemicals for 1990.

May MJ (Norfolk Agricultural Station, Morley, Wymondham, Norfolk, NR18 9DB, UK.)

Source: British Sugar Beet Review. 1990, 58:1, p13-14. ISSN 0007-1854

Document type: Journal article.(C) CAB International

Integrated weed control on irrigated soils.

Ulinici AI On MPascu MPascu APinzariu DS Ionovschi V Timirgaziu C Patrascoiu F. Danacu TBulica IBodescu FOana S (Institutul de Cercetari Pentru Cereale si Plante Tehnice, 8264 Fundulea, Calarasi, Romania.)

Source: Probleme de Agrofitotehnie Teoretica si Aplicata. 1988, 10:3, p215-237

Document type: Journal article.(C) CAB International

Herbicide resistant sugarbeet by genetic engineering.

D'Halluin K (Plant Genetic Systems, NVJ Plateaustraat 22, B-9000 Ghent, Belgium.)

Source: Congres d'Hiver - Institut International de Recherches. 1988:No. 52, p283-288 ,

Document type: Journal article.(C) CAB International

Susceptibility of young sugarbeet plants to foliar herbicides.

Neururer H (Bundesanstalt fur Pflanzenschutz, Vienna, Austria.)

Source: Congres d'Hiver - Institut International de Recherches. 1988:No. 52, p267-275 ,

Document type: Journal article.(C) CAB International

Bioeconomic weed management models for sugarbeet (*Beta vulgaris*) production.

Shribbs JMLybecker DWSchweizer EE (ICI Americas Inc., PO Box 760, Mt View, CA 94042, USA.)
Source: Weed Science. 1990, 38:4-5, p436-444 , ISSN 0043-1745
Document type: Journal article.(C) CAB International

Validation of four bioeconomic weed management models for sugarbeet (*Beta vulgaris*) production.

Shribbs JMSchweizer EEHergert Llybecker DW (ICI Americas Inc., PO Box 760, Mt.View, CA 94042, USA.)
Source: Weed Science. 1990, 38:4-5, p445-451 , ISSN 0043-1745
Document type: Journal article.(C) CAB International

Effects of increasing weed-beet density on sugar-beet yield and quality.

Longden PC (Broom's Barn Experimental Station, Higham, Bury St Edmunds, Suffolk IP28 6NP, UK.)
Source: Annals of Applied Biology. 1989, 114:3, p527-532 , ISSN 0003-4746
Document type: Journal article.(C) CAB International

Fusilade < dash > new strategy for beet.

Konradt MWulff G (Deutsche ICI GmbH, Frankfurt, Germany.)
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Texas Agriculture Experimental Station
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28. SY Sadeghlan

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PO Box 31585 - 4114
Iran.

ATTACHMENT 2

List of Seed Companies

1. KWS (Betaseed Inc in USA)

Dr A. David Hindle
Seed Manager
1788 Marschall Road,
PO Box 195,
Shakopee, Minnesota. 55379-0195.
USA.

2. Novartis (Hilleshog-MH in USA)

Dr Gerald M. Simantel
11939 Sugarmill Road,
Longmont. Colorado. 80501.
USA.

3. Avanta (VDH-Holly Hybrids in USA)

Dr C. Mike Georgescu
Holly Sugar Corporation
PO Box 60,
Tracey. California. 95376.
USA.

4. Seedex Inc

Dr Akio Suzuki
1350 Kansas Avenue,
Longmont. Colorado. 80501.
USA.

5. American Crystal Sugar Company

Dr John J. Kern
Research Centre, 1700 N 11th
PO Box 1227,
Moorehead, Minnesota. 56560.
USA.

6. Danisco Seed

Mr Steen Bisgard
Hojbygardvej 14
4960 Holeby
Denmark

7. SES Europe

Mr Vermoote Dirk
Industriepark Soldatenplein
Z2 no 15 3300 Tienen
Belgium

8. Hillehog (UK) Ltd

Docking, Kings Lynn
Norfolk, PE31 8LY

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Impact of glyphosate-resistant sugar beet. *Pest Management Science*, Vol. 74, Issue. 5, p. 1050. Yield of glyphosate-resistant sugar beets and efficiency of weed management systems with glyphosate and conventional herbicides under German and Polish crop production. *Transgenic Research*, Vol. 22, Issue. 4, p. 725.