

**A COMPENDIUM OF  
SUGAR BEET INFORMATION**

**B R WEEDEN**

**QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES**

## 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

# Contents

<i>Summary</i>	<i>ii</i>
<i>Introduction</i>	<i>1</i>
<b>List of references</b>	
Agronomy	2
Varieties and Seed Treatments	5
Planting and Cultivation	11
Nutrition	
- Nitrogen	18
- Phosphorus	32
- Potassium	33
- Trace Elements	34
Pests	36
Diseases	
- General	39
- Viral	40
Weed control	47
Irrigation	54
Harvesting and storage	63
Yield and quality	67
Crop Rotations, Soil Aspects, Root Growth and Erosion Control	72
Production aspects	77
Stockfeed aspects	87
Models, General reports and Miscellaneous	89
Attachments	
1. List of World Sugar beet Research Establishments	95
2. List of Sugar beet Seed Companies	100
Acknowledgements	102

## **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 FVajnberger AMihalic 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 KErjala 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 (Hillehog 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 MRajnpreht 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 T McCullagh 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 I Marlander B (Institut für Zuckerrubenforschung, 37079 Göttingen, 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 S Lemaux P G Hall 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 RGS, Smith JAY, Onts 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 KJ, Miller 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 JS, Sienkiewicz JW, Lodek 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 BS, Erickson AE (Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824, USA.)

Source: Agronomy Journal. 1991, 83:2, p386-390 , ISSN 0002-1962

Document type: Journal article.(C) CAB International

**Studies on precision sowing of sugarbeet. I. Effect of cultivars, spacing in the row and nitrogen fertilization on the stand formation and morphological traits of plants.**

Rozbicki JKalinowska-Zdun M (Katedra Szczegolowej Uprawy Roslin, SGGW-AR,Warsaw, Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1990, 108:4, p55-67  
Document type: Journal article. (C) CAB International

**Mechanized cultivation of sugarbeet.**

Sekuler IL (Yaltushkov Sugarbeet Breeding Station, Yaltushkov, Ukrainian SSR.)  
Source: Vestnik Sel'skokhozyaistvennoi Nauki (Moskva). 1990:No. 10, p84-88 , 10  
Document type: Journal article.(C) CAB International

**Influence of soil crusting on the emergence of sugar beet seedlings.**

Duval YBoiffin JScaife A (ed.) (INRA, Station d'Agronomie, 02004 Laon Cedex,France.)  
Source: Proceedings - Congress of the European Society of Agronomy. 1990, p3P ISBN 2-9505124-0-2  
Document type: Conference paper.(C) CAB International

**Effect of planter ground speed and seed spacing on sugarbeet production.**

Giles JFCattanach AWSmith LJCattanach NR (Department of Soil Science, North Dakota State University, Fargo, ND 58105, USA.)  
Source: Journal of Sugar Beet Research. 1990, 27:3-4, p39-49 ISSN 0899-1502  
Document type: Journal article.(C) CAB International

**Sugarbeet planting technology in the U.K.**

Smith JAPeck CWPrince JWF (Biological Systems Engineering Department, University of Nebraska, Scottsbluff, NE, USA.)  
Source: Paper - American Society of Agricultural Engineers. 1991:No. 91-1560,14 pp. ISSN 0149-9890  
Document type: Miscellaneous.(C) CAB International

**Seed spacing accuracy of sugarbeet planters.**

Smith JAPalm KLYonts CDWilson RG (Biological Systems Engineering Department,University of Nebraska, Scottsbluff, NE, USA.)  
Source: Paper - American Society of Agricultural Engineers. 1991:No. 91-1551,15 pp. ISSN 0149-9890  
Document type: Miscellaneous.(C) CAB International

**Studies on precision sowing of sugarbeet. II. Effect of cultivars, spacing in the row and nitrogen fertilizer application on yield of roots and leaves.**

Rozbicki JKalinowska-Zdun M (Katedra Szczego < l > owej Uprawy Roslin, SGGW-AR,Warsaw, Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1991, 109:1,p117-129  
Document type: Journal article.(C) CAB International

**Studies on precision sowing of sugarbeet. III. Effect of cultivars, spacing in the row and nitrogen fertilizer application on qualitative traits of the yield.**

Rozbicki JKalinowska-Zdun M (Katedra Szczego < l > owej Uprawy Roslin, SGGW-AR,Warsaw, Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1991, 109:2, p47-56  
Document type: Journal article.(C) CAB International



**Soil temperature measurements and sowing date decisions.**

Gummerson, R and Jaggard, K. 1985.  
Source: British Sugar beet Review, 53(1), 63-5.  
Document type: Journal article.(C) CAB International

**Factors associated with germination of sugarbeet seed in the standard test and establishment in the field.**

Durrant MJGummerson RJ (Broom's Barn Experimental Station, Higham, Bury St.Edmunds, Suffolk IP28 6NP, UK.)  
Source: Seed Science and Technology. 1990, 18:1, p1-10 ISSN 0251-0952  
Document type: Journal article.(C) CAB International

**Seed spacing for nonthinned sugarbeet production.**

Eckhoff JLAHalvorson ADWeiss MJBergman JW (Montana Agricultural Experiment Station, Eastern Agricultural Research Center, Sidney, MT 59270, USA.)  
Source: Agronomy Journal. 1991, 83:6, p929-932 ISSN 0002-1962  
Document type: Journal article.(C) CAB International

**Time of planting, fertilization, plant spacing and transplanting of sugar beet.**

Lunnan TSkutlaberg ASvads HC (Department of Crop Science, Agricultural University of Norway, As, Norway.)  
Source: Norwegian Journal of Agricultural Sciences. 1991, 5:3, p283-288 ISSN 0801-5341  
Document type: Journal article.(C) CAB International

**Sugar beet yield levels depending on the cultivation method.**

Dery < i > o S (Akademia Rolnicza, Lublin Katedra Ogolnej Uprawy Roli i Roslin,Roslin, Poland.)  
Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1991:No. 178, p99-102  
Document type: Journal article.(C) CAB International

**Management options for sugarbeet stand establishment.**

Miller SDFornstrom KJHeld LJBurgener PA (Dept. of Plant, Soil and Insect Sciences, University of Wyoming, Laramie, WY 82071, USA.)  
Source: Journal of Sugarbeet Research. 1992, 29:1-2, p9-21  
Document type: Journal article.(C) CAB International

**Analysis of the variability of sugar beet (*Beta vulgaris* L.) growth during the early stages. I. Influence of various conditions on crop establishment.**

Boiffin JDurr CFleury AMarin-Lafleche AMaillet I (INRA, Station d'Agronomie de Laon-Peronne, 02004 Laon, France.)  
Source: Agronomie. 1992, 12:7, p515-525 ISSN 0249-5627  
Document type: Journal article.(C) CAB International

**Analysis of the variability of sugar beet (*Beta vulgaris* L.) growth during the early stages. II. Factors influencing seedling size in field conditions.**

Durr CBoiffin JFleury ACoulomb I (INRA, Station d'Agronomie de Laon-Peronne,02004 Laon, France.)  
Source: Agronomie. 1992, 12:7, p527-535 ISSN 0249-5627  
Document type: Journal article.(C) CAB International

**The influence of sowing date and plant density on the decision to resow sugarbeet.**

Smit AL (Centre for Agrobiological Research (CABO-DLO), 6700 AA Wageningen,Netherlands.)  
Source: Field Crops Research. 1993, 34:2, p159-173 ISSN 0378-4290  
Document type: Journal article.(C) CAB International

**Effect of plant density, nitrogen and potassium fertilizers on yield and its attributes of sugar beet.**

Edris ASAEI-Din NANEI-Geddawy IHMEI-Shafei AMA (Agronomy Department, Ain Shams University, Egypt.)  
Source: Pakistan Sugar Journal. 1992, 6:3, p21-24  
Document type: Journal article.(C) CAB International

**Sugar beet quality as affected by plant density, nitrogen and potassium fertilizers.**

Geddawi IHEI-Din NANEI-Dris ASAEI-Shafei AMA (Sugar Crops Research Institute,Agricultural Research Centre, Giza, Egypt.)  
Source: Pakistan Sugar Journal. 1992, 6:2, p26-30  
Document type: Journal article.(C) CAB International

**Soil preparation for sugarbeet on clay soil.**

Linden JPvan derVan der Linden JP (Instituut voor Rationele Suikerproductie,Bergen op Zoom, Netherlands.)  
Source: Publikatie - Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Lelystad. 1993:No. 70A, p69-73 .  
Document type: Journal article.(C) CAB International

**Soil compaction and growth of sugarbeet roots.**

Guerif JRichard GDurr CBoizard HDuval Y (INRA Unite d'agronomie, Rue Fernand Christ, 02007 Laon Cedex, France.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15 February 1996.. 1996, p199-212  
Document type: Conference paper.(C) CAB International

**Season and soil-type effects on sugar-beet root development.**

Jaggard KWDunham RJBrown KFWerker AR (IACR-Broom's Barn, Higham, Bury St Edmunds, Suffolk IP28 6NP, UK.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15 February 1996.. 1996, p213-228  
Document type: Conference paper.(C) CAB International

**Development of a precision seeder for variety tests.**

Sawada MMatsuda YKitamura JDaimon Y (Hokuren Federation Agric. Cooperatives,Sapporo 060, Japan.)  
Source: Proceedings of the Sugar Beet Research Association, Japan. 1985:No. 27, p139-143  
Document type: Journal article.(C) CAB International

**The effect of seedbed cultivation on seed placement and seedbed environment.**

Gummerson R (Broom's Barn Exp. Sta., Higham, Bury St. Edmunds, Suffolk, UK.)  
Source: British Sugar Beet Review. 1988, 56:4, p20-22 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Investigation of factors affecting beet seed germination.**

Ashton DBrown SFagan M (Seed Biol. Lab., Agric. Canada, Ottawa, Ont., Canada.)  
Source: Newsletter of the Association of Official Seed Analysts. 1987, 61:1, p73-78  
Document type: Journal article.(C) CAB International

**Seed bed preparation and simultaneous placement of fertiliser at drilling in one operation to save costs and increase yield.**

Raininko, K. 1988.  
Source: Proceedings of the 51<sup>st</sup> Winter Congress of the International Institute for Sugar Beet Research, 23-32.  
Document type:Conference paper.(C) CAB International

**Growth and yield of autumn-sown sugar beet: effects of sowing time, plant density and cultivar.**

Castillo Garcia JELopez Bellido L (Dep. Cultivos Herbaceos, Univ. Cordoba,Cordoba, Spain.)  
Source: Field Crops Research. 1986, 14:1, p1-14 ISSN 0378-4290  
Document type: Journal article.(C) CAB International

**Response of sugarbeet yield and quality to seed spacing and field emergence.**

Marlander B (A. Dieckmann-Heimberg, Saatzucht Sulbeck, 3065 Nienstadt, German Federal Republic.)  
Source: Zuckerindustrie. 1989, 114:9, p720-726 , ISSN 0344-8657  
Document type: Journal article.(C) CAB International

**Excessive density of sugar beet stands.**

Minx L (Vysoka Skola Zemedelska, 613 < thin > 00 Brno, Czechoslovakia.)  
Source: Scientia Agriculturae Bohemoslovaca. 1990, 22:1, p23-31 ISSN 0582-2343  
Document type: Journal article.(C) CAB International

**Seedling growth of sugarbeet (*Beta vulgaris* L.) at low temperatures.**

Wei ZAbe JShimamoto Y (Faculty of Agriculture, Hokkaido University, Sapporo 060, Japan.)  
Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1988: No. 30, p158-162 , ISSN 0912-1048  
Document type: Journal article.(C) CAB International

**Variation in rate of emergence related to seedling growth in sugarbeet (*Beta vulgaris* L.).**

Abe JWei ZShimamoto Y (Faculty of Agriculture, Hokkaido University, Sapporo 060, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1988: No. 30, p163-167 , ISSN 0912-1048

Document type: Journal article.(C) CAB International

**Critical plant densities for resowing of sugar beet.**

Smit ABStruik PCNiejehuis JHvanRenkema JAVan Niejehuis JH (Wageningen

Agricultural University, Department of Farm Management, Hollandseweg 1, 6706 KN Wageningen, Netherlands.)

Source: Journal of Agronomy and Crop Science. 1996, 177:2, p95-99

ISSN 0931-2250

Document type: Journal article.(C) CAB International

**The effect of plant population and nitrogen level on sugar yield and juice purity of sugar beet (*Beta vulgaris*).**

Kemp PDKhani AMMillner JP (Department of Plant Science, Massey University,Palmerston North, New Zealand.)

Source: Proceedings Annual Conference - Agronomy Society of New Zealand. 1994, 24, p131-134 ISSN 0110-6589

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

**Effect of planting date and nitrogen fertilization on soluble carbohydrate concentrations in sugarbeet.**

Dunn GLee GSSchmehl WR (Department of Agronomy, Colorado State University, Fort Collins, CO 80523, USA.)

Source: Journal of Sugar Beet Research. 1990, 27:1-2, p1-10 , ISSN 0899-1502

Document type: Journal article.(C) CAB International

## **Nutrition- Nitrogen**

### **Assessment of sugarbeet nitrogen nutritional status on the basis of chemical analysis of plants.**

Faber A Chojnacki A Kryszkowska T (Instytut Uprawy Nawożenia i Gleboznawstwa, Puawy, Poland.)  
Source: Pamięnik Pu < l > awski. 1989 publ. 1990:No. 94, p29-40 ,  
Document type: Journal article.(C) CAB International

### **Investigation of some factors influencing the determination of nitrate in plant samples.**

Thamm F (MTA Talajtani es Agrokemiai Kutato Intezete, Budapest 1022, Hungary.)  
Source: Agrokemia es Talajtan. 1990, 39:1-2, p191-206 ,  
Document type: Journal article.(C) CAB International

### **Seasonal variations in photosynthetic capacity, growth, leaf development and productivity of sugar beet plants under optimal nitrogen supply.**

Vandendriessche H Ceulemans R Feyen J Impens I (Soil Service of Belgium, 3030 Leuven-Heverlee, Belgium.)  
Source: Photosynthetica. 1990, 24:3, p385-391 , ISSN 0300-3604  
Document type: Journal article.(C) CAB International

### **Modeling long-term crop response to fertilizer and soil nitrogen. II. Comparison with field results.**

Wolf J Keulen H Van Keulen H (Centre for World Food Studies, c/o CABO, 6700 AA Wageningen, Netherlands.)  
Source: Plant and Soil. 1989, 120:1, p23-38 , 12 ref. ISSN 0032-079X  
Document type: Journal article.(C) CAB International

### **Stimulation of sugar-beet hypocotyl extension with potassium nitrate.**

Durrant M J Mash S J (Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)  
Source: Annals of Applied Biology. 1989, 115:2, p367-374 , ISSN 0003-4746  
Document type: Journal article.(C) CAB International

### **Utilization of nitrogen in sugarbeet growing.**

Beek M A Van der Wilting P Van der Beek M A (Instituut voor Rationale Suikerproductie, 4600 AA Bergen op Zoom, Netherlands.)  
Source: Maandblad - Suiker Unie. 1989, 23:6, p17-18 ISSN 0024-8606  
Document type: Journal article.(C) CAB International

### **Nutrient supply design for sugarbeet < dash > use of a PC programme for operational nitrogen fertilization.**

Jauert R Schnee M Ernst H (Institut für Düngungsforschung Leipzig, German Democratic Republic.)  
Source: Feldwirtschaft. 1988, 29:9, p403-404 ISSN 0014-9799  
Document type: Journal article.(C) CAB International

**Model trials of N mineralization from leaves of sugar beet.**

Vilsmeier KGutser R (Lehrstuhl für Pflanzenernährung der Tech. Univ. München-Weihenstephan, D-8050 Freising 12, German Federal Republic.)  
Source: Landwirtschaftliche Forschung. 1988, 41:3-4, p210-216 , [German  
Document type: Journal article.(C) CAB International

**Fertilization of sugarbeet in relation to soil type and supply of readily available nitrogen.**

Milosevic RMa FMRozić R (Poljoprivredni Fakultet, Novi Sad, Yugoslavia.)  
Source: Zemljiste i Biljka. 1988, 37:2, p89-101  
Document type: Journal article.(C) CAB International

**The effect of nitrogen doses and sprinkling irrigation on the structure of sugar beet, potato and wheat crops.**

Buniak WDMowski ZDziezyc JReznicek R (ed.) (Agric. Academy, Wrocław, Poland.)  
Source: Physical properties of agricultural materials and products. Proceedings of the 3rd International Conference, August 19-23, 1985, Prague, Czechoslovakia. 1988, p661-666  
Hemisphere Publishing Corporation. New York, USA. ISBN 0-89116-677-7  
Document type: Conference paper.(C) CAB International

**Effect of long term fertilizer applications with nitrogen and phosphorus on the chemical processes in the soil and the implications on yields of potatoes-wheat-sugarbeet and maize.**

Reichbuch L (Institut de Cercetari pentru Cereale si Plante Tehnice, Fundulea, Romania.)  
Source: Analele Institutului de Cercetari pentru Cereale si Plante Tehnice, Fundulea. 1987, 54, p255-273 ,  
Document type: Journal article.(C) CAB International

**Effects of placement and chemical form of nitrogen fertilizer on growth and yields of sugarbeet.**

Nishio TFujimoto T (Department of Lowland Farming, Hokuriku National Agricultural Experiment Station, Japan.)  
Source: Research Bulletin of the Hokkaido Agricultural Experiment Station. 1990 :No. 153, p27-39 , ISSN 0367-5955  
Document type: Journal article.(C) CAB International

**Nitrogen and potassium lixiviation and water use of sugar beet under irrigated and non irrigated condition on a volcanic ash soil.**

Nissen M, JLuchsinger L, WDaroch P, R (Universidad Austral de Chile, Facultad de Ciencias Agrarias, Casilla 567, Valdivia, Chile.)  
Source: Agro Sur. 1989, 17:2, p122-132 , ISSN 0304-8802  
Document type: Journal article.(C) CAB International

**Some forms of nitrogen in a sugarbeet cultivated soil of Portugal.**

Oliveira MDGusmao MRCarranca CLGoncalves MG (Inst. Nacional Investigacao Agraria, Dep. Fitotecnia, Estacao Agronomica Nacional, Quinta do Marques, 2780 Oeiras, Portugal.)  
Management systems to reduce impact of nitrates. Elsevier Applied Science. Barking, UK. ISBN 1-85166-402-5 (Proceedings of a conference held in Brussels, 24-25 September, 1987.)  
Document type: Conference paper (C) CAB International

**The nitrogen nutrition of sugar beet: the background to the requirement for sugar yield and amino-N accumulation.**

Armstrong, M and Milford, G. 1985.  
Source: British Sugar Beet Review, 53(4), 42-44.  
Document type: Journal Article.(C) CAB International

**Effect of different nitrogen sources on growth of sugarbeet.**

Causin HFArnozis PA (Centro de Ecofisiologia Vegetal (CONICET), Serrano 665,1414- Buenos Aires, Argentina.)  
Source: Ciencia del Suelo. 1988, 6:2, p129-135 , 26 ref. ISSN 0326-3169  
Document type: Journal article.(C) CAB International

**Nitrogen and phosphorus requirement of sugarbeet in saline-sodic soils.**

Singhania RASharma RK (Department of Soil Science, GB Pant University of Agriculture and Technology, Pantnagar 263145, Uttar Pradesh, India.)  
Source: Journal of the Indian Society of Soil Science. 1990, 38:2, p330-332 , ISSN 0019-638X  
Document type: Journal article.(C) CAB International

**Experimental evidence of N < multiply > K interactions.**

Loue A (Dep. Agron., SCPA, France.)  
Source: Technical Bulletin - National Fertilizer Development Centre. 1989:No. 4/89, p123-149 , NFDC. Islamabad, Pakistan  
Document type: Journal article, Conference paper.(C) CAB International

**The dynamics of nitrate nitrogen as a function of soil type and sugar-beetfertilization.**

Milosevic RManojlovic SBogdanovic DMing MFWelte E (ed.)Szabolcs I (ed.) (Fac. Agriculture, Novi Sad, Yugoslavia.)  
Source: Protection of water quality from harmful emissions with special regard to nitrate and heavy metals. Proceedings of the 5th International Symposium 1989, p141-144 , ISBN 3-88452-625-1  
Document type: Conference paper.(C) CAB International

**The dynamics of nitrogen uptake and its remobilising during the growth of sugar beet.**

Armstrong, M et al. 1986.  
Source: Journal of Agricultural Science, Cambridge, 107, 145-54.  
Document type: Journal article.(C) CAB International

**Sugarbeet response to nitrogen as affected by seasonal irrigation.**

Winter SR (Texas Agricultural Experiment Station, Bushland, TX 79012, USA.)  
Source: Agronomy Journal. 1990, 82:5, p984-988 , ISSN 0002-1962  
Document type: Journal article.(C) CAB International

**Effect of sprinkler irrigation and nitrogen application yield and some quality traits of sugarbeet.**

Zbiec IKarczmarczyk SKoszanski Z (Katedra Ogolnej Uprawy Roli i Roslin, AR,Szczecin, Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1989, 108:1, p81-91 ,  
Document type: Journal article.(C) CAB International

**Effect of differentiated nitrogen and potassium fertilizer application on the trace element content in soil and sugarbeet. I. Boron.**

Dechnik IChmielewska BFilipek TMazur J (Katedra Chemii Rolnej, AR, Lublin,Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1989, 108:1, p149-153 ,  
Document type: Journal article.(C) CAB International

**Nitrogen response and root system of various field crops.**

Yamaguchi JTanaka A (Hokkaido University, Sapporo 060, Japan.)  
Source: Transactions 14th International Congress of Soil Science, Kyoto, Japan, August 1990, Volume IV..  
1990, p249-254 ,  
Document type: Conference paper.(C) CAB International

**Development of nitrogen fertilizer recommendations for potatoes and sugar beet on the basis of soil testing.**

Wadman WPNeeteson JJZwetsloot HJC (Inst. Soil Fertility, P.O. Box 30003,  
NL-9750 RA Haren, Netherlands.)  
Source: Kali-Briefe. 1990, 20:2, p171-180 ,  
Document type: Journal article.(C) CAB International

**Nitrogen fertilizer placement in sugarbeet.**

Linden JPvan derVan der Linden JP (Instituut voor Rationele Suikerproductie,Bergen op Zoom,  
Netherlands.)  
Source: Landbouwmecanisatie. 1991, 42:3, p12-13. ISSN 0023-7795  
Document type: Journal article.(C) CAB International

**Nitrogen use by sugar beet.**

Allison, MF and Hetschkun, HM. 1990.  
Source: Report of the Institute of Arable Crops Research for 1989,95-96  
Document type: Research report.(C) CAB International

**Influence of nitrogen supply on yield and quality of sugar beet.**

Marlander B (A. Dieckmann-Heimburg, Saatzucht Sulbeck, 3065 Nienstadt, Germany.)  
Source: Zeitschrift fur Pflanzenernahrung und Bodenkunde. 1990, 153:5, p327-332,  
Document type: Journal article.(C) CAB International



**Effect of date and method of nitrogen application on the yield and quality of sugarbeet.**

Chochola J (Koncernovy Vyzkumny a Slechtitel'sky Ustav Reparsky, 294 46 Semcice, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1990, 36:10, p1061-1067  
Document type: Journal article.(C) CAB International

**Effect of water stress on assimilation of nitrogen by young plants of sugarbeet.**

Petrovic N Momcilovic V Petrovic M (Poljoprivredni fakultet, 21000 Novi Sad, Yugoslavia.)  
Source: Bioloski Vestnik. 1991, 39:1-2, p137-140  
Document type: Journal article.(C) CAB International

**Leaching of spring applied fertilizers and nitrogen requirements of sugar beet.**

Shepherd MA (Gleadthorpe Experimental Husbandry Farm, Meden Vale, Mansfield, Notts NG 20 9PF, UK.)  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2527  
Document type: Journal article.(C) CAB International

**The effect of graduated nitrogen fertilizer application on biomass production and the quality of monogerm sugarbeet.**

Bajci P Tomankova E (Vyskumny a Sl'achtitel'sky Ustav Semennyh Okopanin a Priemyselnyh Plodin, 919 28 Bucany, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1991, 37:1, p81-90 Document type: Journal article.(C) CAB International

**Application of nitrogen fertilizer to sugarbeet.**

Christmann J Guiraud G Lindemann Y Marol C Calvert R (ed.) (Institut Technique Francais de la Betterave industrielle, 75008 Paris, France.)  
Source: Nitrates-agriculture-eau: International symposium, Paris-La Defense (France), November 7-8, 1990 ISBN 2-7380-0284-6  
Document type: Conference paper.(C) CAB International

**Nitrogen and Sugar beet.**

International Institute for Sugar Beet Research. 1983.Symposium.  
Document type: research Report.(C) CAB International

**Effect of liming, manuring and harvesting date on the effectiveness of nitrogen rates for sugarbeet. I. Emergence, yield and processing quality of sugarbeet.**

Gutmanski I (Instytut Hodowli i Aklimatyzacji Roslin, Bydgoszcz, Poland.)  
Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1990:No. 176, p59-82  
Document type: Journal article.(C) CAB International

**Effects of N, P and K on yield and quality of sugar beet.**

Herlihy M (Teagasc, Johnstown Castle Research Centre, Wexford, Irish Republic.)  
Source: Irish Journal of Agricultural and Food Research. 1992, 31:1, p35-49 ISSN 0791-6833  
Document type: Journal article.(C) CAB International

**Effect of the form of N on the time course of N uptake, the nitrate concentration in petioles (rapid NO<sub>3</sub><sup>-</sup> test) and N utilization in sugarbeet.**

Schulz RMuller JMarschner H (Institut für Pflanzenernährung, Universität Hohenheim, 7000 Stuttgart 70, Germany.)

Source: Verband Deutscher Landwirtschaftlicher Untersuchungs- und Forschungsanstalten Reihe Kongressberichte. 1990:No. 30, p613-618  
Document type: Journal article.(C) CAB International

**Comparisons of foliar and preplant applied nitrogen fertilizer for sugar beet.**

Lamb JAMoraghan JT (Department of Soil Science, University of Minnesota, St.Paul, MN 55108, USA.)

Source: Agronomy Journal. 1993, 85:2, p290-295 ISSN 0002-1962  
Document type: Journal article.(C) CAB International

**Root development of sugarbeet plants on a sandy loess site with regard to nitrogen nutrition.**

Garz JAbdallah MSchliephake W (Institut für Pflanzenernährung und Düngung, Universität Halle, 4020 Halle, Germany.)

Source: Journal of Agronomy and Crop Science. 1992, 169:4, p260-269 ,  
ISSN 0931-2250  
Document type: Journal article.(C) CAB International

**Utilization of nitrogen by sugar beet as related to times and depth of applying sodium nitrate.**

Lukin SVKirikoi YaTKartsev YuG (All-Union Research Institute of Fertilizers and Agricultural Soil Science, Moscow, Russia.)

Source: Soviet Agricultural Sciences. 1991:No. 10, p26-28 ,  
ISSN 0735-2700  
Document type: Journal article.(C) CAB International

**The ionic balance and yield of plants fertilized with different rates of nitrogen and potassium. Part I. The state of ionic balance and yield of sugarbeet.**

Filipek T (Instytut Gleboznawstwa i Chemii Rolnej, AR, Lublin, Poland.)

Source: Annales Universitatis Mariae Curie-Skłodowska. Sectio E, Agricultura. 1987, publ. 1990, 42:1, p207-227  
Document type: Journal article.(C) CAB International

**Effect of different levels of nitrogen on the yield, nutrient uptake and quality components in juice of sugarbeet (*Beta vulgaris* L.).**

Kumar VZutshi K (Agricultural Research Station, Rajasthan Agricultural University, Sriganganagar, India.)

Source: Madras Agricultural Journal. 1991, 78:5-8, p165-167 ISSN 0024-9602  
Document type: Journal article.(C) CAB International

**Nitrogen fertilizers for sugarbeet.**

Rasmusson A

Source: Betodlaren. 1991, 54:1, p40-42 ISSN 0345-1410  
Document type: Journal article.(C) CAB International

**The effect of N fertilizer placement at optimum rates on sugarbeet yield and quality for industrial use.**

Vandergeten JPVanstellen M (Institut Royal Belge pour l'Amelioration de la Betterave, Tienen, Belgium.)  
Source: 54th Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 20-21 February 1991  
Document type: Conference paper.(C) CAB International

**Placement of N, P and K to sugar beet.**

Marcussen C (Forsogsudvalget for Sukkerroedyrkning Alstedgard, 4173 Fjenneslev,Denmark.)  
Source: 54th Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 20-21 February 1991.. 1991, p401-406  
Document type: Conference paper.(C) CAB International

**Comparison of overall and row application of solid nitrogen fertilizers.**

Beek MAVan derWilting PVan der Beek MA (Instituut voor Rationele Suikerproductie, Bergen op Zoom, Netherlands.)  
Source: 54th Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 20-21 February 1991.. 1991, p407-432  
Document type: Conference paper.(C) CAB International

**Effect of nitrogen fertilizer placement on yield and quality of sugar beets.**

Vlassak KVVandergeten JPVanstellen M (Faculty of Agricultural Sciences, Katholieke Universiteit Leuven, Belgium.)  
Source: 54th Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 20-21 February 1991.. 1991, p455-463  
Document type: Conference paper(C) CAB International

**Effect of high levels of nitrogen and harvesting dates on the physical characteristics and sucrose accumulation in sugarbeet.**

Shafi MKhan SRashid A (NWFP Agricultural University, Peshawar, Pakistan.)  
Source: Sarhad Journal of Agriculture. 1992, 8:1, p7-10  
ISSN 1016-4383  
Document type: Journal article.(C) CAB International

**Nitrogen fertiliser recommendations for 1994.**

Armstrong MStillingfleet N (British Sugar, Holmewood Hall, UK.)  
Source: British Sugar Beet Review. 1993, 61:4, p4-6. ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Economic optimum of nitrogen fertilizer application to sugarbeet. A critical assessment of methodical approaches based on 39 Lower Saxony field trials.**

Ladewig EMarlander B (Institut fur Zuckerrubenforschung, 37079 Gottingen,Germany.)  
Source: Zuckerindustrie. 1993, 118:9, p692-695 , 4 ref. [German; english, ISSN 0344-8657  
Document type: Journal article.(C) CAB International

**Sugar beet tops as a source of nitrogen for maize and rice grown in rotation with sugar beet in subtropical north-west India.**

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

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

Document type: Journal article.(C) CAB International

**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.)

Source: Indian Sugar. 1992, 41:12, p899-901. ISSN 0019-6428

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 Córdoba, Córdoba, Spain.)

Source: Fertilizer Research. 1994, 38:2, p101-109, 25 ref. [English]. ISSN 0167-1731

Document type: Journal article.(C) CAB International

**Effect of nitrogen supply on nitrogen uptake and concentration in sugarbeet leaves in pot trials.**

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

Source: Zuckerindustrie. 1993, 118:5, p357-365, ISSN 0344-8657

Document type: Journal article.(C) CAB International

**Preliminary study on the effects of N and P fertilizers on sugarbeet root yield by yield response surface equation.**

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

Source: China Sugarbeet. 1993:No. 1, p18-23

Document type: Journal article(C) CAB International

**Studies on sugarbeet nutrition. II. Effects of short-term nitrogen application during the latter half of vegetative stage on yield and quality of sugarbeet.**

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

Document type: Journal article.(C) CAB International

**Carbon, nitrogen, and nutrient interactions in Beta vulgaris L. as influenced by nitrogen source, NO<sub>3</sub><sup>-</sup> versus NH<sub>4</sub><sup>+</sup>.**

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

Source: Plant Physiology. 1995, 107:2, p575-584 ISSN 0032-0889

Document type: Journal article.(C) CAB International

**The nitrogen nutrition of sugar beet.**

Pocock, TO et al. 1988.

Source: British Sugar Beet Review. 56(3) 41-4.

Document type: Journal article.(C) CAB International

**Sugar yield, nitrogen uptake by sugar beet and optimal nitrogen fertilization in relation to nitrogen soil analyses and several additional factors.**

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

ISSN 0178-2762

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

**Fertilizer nitrogen and phosphorus requirements for companion cropping of sugarbeet and cane.**

Kapur MLKanwar RS (PAU Sugarcane Res. Sta., Jalandhar 144 001, India.)

Source: Proceedings of the 54th Annual Convention of the Sugar Technologists' Association of India, Bangalore, 17th, 18th & 19th January, 1992.

Document type: Journal article.(C) CAB International

**Yield analysis of seven sugar beet varieties under different levels of nitrogen in a dry region of Egypt.**

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

**Nitrogen nutrition of young sugarbeet plants.**

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

Source: Kuhn-Archiv. 1995, 89:1, p35-46 ISSN 0940-3507

Document type: Journal article.(C) CAB International

**The results of foliar nutrition of field crops. I. Response of plants to foliar nitrogen application.**

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

Source: Roczniki Gleboznawcze. 1994, 45:3/4, p69-78 , ISSN 0080-3642

Document type: Journal article.(C) CAB International

**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.)

Source: Journal of Production Agriculture. 1994, 7:4, p422-428

ISSN 0890-8524

Document type: Journal article.(C) CAB International

**Responses of sugarbeet to NPK fertilizers and other productivity factors in the northeast of Uruguay.**

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,

Document type: Conference paper.(C) CAB International

**Optimising nitrogen fertilisation for higher yield and quality of sugarbeet.**

Toor SSBains BS (Sugarcane Research Station, Punjab Agricultural University, Jalandhar 144001, India.)

Source: Madras Agricultural Journal. 1994, 81:12, p689-691

ISSN 0024-9602

Document type: Journal article.(C) CAB International

**Nitrogen effects in sugar beet growing: a module for decision support.**

Smit ABStruik PCNiejenhuis JHvanVan Niejenhuis JH (Wageningen Agricultural University, Department of Farm Management, De Leeuwenborch, Hollandseweg 1,NL-6706 KN Wageningen, Netherlands.)  
Source: Netherlands Journal of Agricultural Science. 1995, 43:4, p391-408 , 38 ISSN 0028-2928  
Document type: Journal article.(C) CAB International

**Can the fertiliser nitrogen requirement of sugar beet be predicted?**

Allison MArmstrong M (IACR-Broom's Barn, Higham, Bury St. Edmunds IP28 6NP, UK.  
Source: British Sugar Beet Review. 1995, 63:4, p6-9 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Split application of nitrogen on irrigated sugarbeet.**

Eckhoff JLA (Montana State University, Eastern Agricultural Research Center,P.O. Box 1350, Sidney, MT 59270, USA.)  
Source: Journal of Sugar Beet Research. 1995, 32:4, p175-183  
ISSN 0899-1502  
Document type: Journal article.(C) CAB International

**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.)  
Source: Journal of Production Agriculture. 1996, 9:3, p390-394  
ISSN 0890-8524  
Document type: Journal article.(C) CAB International

**An analysis of the agronomic, economic and environmental effects of applying N fertilizer to sugarbeet (*Beta vulgaris*).**

Allison MFArmstrong MJJaggard KWTodd ADMilford GFJ (IACR-Broom's Barn, Higham,Bury St Edmunds, Suffolk IP28 6NP, UK.)  
Source: Journal of Agricultural Science. 1996, 127:4, p475-486  
ISSN 0021-8596  
Document type: Journal article.(C) CAB International

**Effect of source and split application of nitrogen fertilizer on yield and quality of sugar beet (*Beta vulgaris* L.).**

Zeidan EEI-Khawaga AZalat SBorin M (ed.)Sattin M (ed.) (Faculty of Agriculture,Zagazig University, Zagazig, Egypt.)  
Source: Proceedings of the third congress of the European Society for Agronomy, Padova University, Abano-Padova, Italy, 18-22 September 1994.. 1994, p630-631 ISBN 2-9505124-1-0  
Document type: Conference paper.(C) CAB International

**Fertilization of sugarbeet with nitrogen on the basis of the amount of mineral nitrogen in the soil.**

Milosevic R (Poljoprivredni Fakultet, 21000 Novi Sad, Yugoslavia.)  
Source: Arhiv za Poljoprivredne Nauke. 1988, 49:176, p297-307  
ISSN 0004-1262 Document type: Journal article.(C) CAB International

**Production potential of sugarbeet (*Beta vulgaris* L.) under constraints of nitrogen, irrigation and plant population.**

Kapur MLKanwar RS (Sugarcane Res. Sta., Jalandhar 144001, Punjab, India.)  
Source: International Journal of Tropical Agriculture. 1988, 6:1-2, p88-94 ISSN 0254-8755  
Document type: Journal article.(C) CAB International

**Nitrogen fertilizer effects on uptake and partitioning of chloride in sugarbeet plants.**

Moraghan JT (Dep. Soil Sci., North Dakota State Univ., Fargo, ND 58105, USA.)  
Source: Agronomy Journal. 1987, 79:6, p1054-1057 ISSN 0002-1962  
Document type: Journal article (C) CAB International

**Effect of incrementing nitrogen application on sucrose yield of sugarbeet.**

Anderson FNPeterson GA (Panhandle Exp. Sta., Univ. Nebraska, Scottsbluff, NE 69361, USA.)  
Source: Agronomy Journal. 1988, 80:5, p709-712 ISSN0002-1962  
Document type: Journal article.(C) CAB International

**Nitrogen needs of sugarbeet produced with reduced-tillage systems.**

Halvorson ADHartman GP (USDA-ARS, P.O. Box. 400, Akron, CO 80720, USA.)  
Source: Agronomy Journal. 1988, 80:5, p719-722 ISSN 0002-1962  
Document type: Journal article.(C) CAB International

**Nitrogen and irrigation needs of sugar beet.**

Prasad UK (Rajendra Agric. Univ., Pusa, Samastipur-848125, Bihar, India.)  
Source: Fertiliser News. 1986, 31:6, p23-25 ISSN 0015-0266  
Document type: Journal article.(C) CAB International

**Effect of nitrogen sources and method of application on sugar beet.**

Osman MS (Dep. Agron., Al-Azhar Univ., Cairo, Egypt.)  
Source: Annals of Agricultural Science, Ain Shams University. 1986, 31:2, p1233-1240  
Document type: Journal article.(C) CAB International

**The dynamics of nitrogen uptake and its remobilization during the growth of sugar beet.**

Armstrong MJMilford GFJPocock TOLast PJDay W (Broom's Barn Exp. Sta., Higham,Bury St Edmunds, Suffolk, IP28 6NP, UK.)  
Source: Journal of Agricultural Science, UK. 1986, 107:1, p145-154  
Document type: Journal article.(C) CAB International

**Evaluation of a nitrogen leaching/mineralization model for sugar beet.**

Whitmore APMilford GFJArmstrong MJ (Rothamsted Exp. Sta., Harpenden, Herts.,AL5 2JQ, UK.)  
Source: Plant and Soil. 1987, 101:1, p61-65 ISSN 0032-079X  
Document type: Journal article.(C) CAB International



**Effect of nitrogen nutrition on quality of three important root/tuber crops.**

Hill WA Hauck RD (ed.) (Dep. of Agric. Sciences, Tuskegee Inst., AL, USA.)

Source: Nitrogen in crop production. 1982, p627-641

Document type: Conference paper.(C) CAB International

**Interactions of nitrogen and phosphorus fertilizers for sugarbeet production.**

Qeleshi A (Institutin e Larte Bujqesor, Korce, Albania.)

Source: Buletini i Shkencave Bujqesore. 1989, 28:2, p19-25

Document type: Journal article.(C) CAB International

**The effect of nitrogen fertilizer application on sugarbeet, winter wheat and maize.**

Kucharski J Chodan J (Katedra Chemii Rolnej, ART, Olsztyn, Poland.)

Source: Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura. 1991:No. 52, p75-83, ISSN 0860-2832

Document type: Journal article.(C) CAB International

**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

Document type: Journal article.(C) CAB International

**On N and K nutrition and other cultural practices in sugarbeet production.**

Beek MA van der Van der Beek MA (Instituut voor Rationele Suikerproductie, Netherlands.)

Source: Meststoffen. 1991:No. 1/2, p24-29 ISSN 0169-2267

Document type: Journal article (C) CAB International

**Effects of nitrogen fertiliser and irrigation on sugar beet at Broom's Barn 1973-78.**

Last, PJ et al. 1983.

Source: Journal of Agricultural Science, Cambridge, 101, 185-205.

Document type: Journal article.(C) CAB International

**Response of sugar beet varieties to the soil and foliar nitrogen fertilization.**

Podlaska J Artyszak A (Department of Plant Production, Warsaw Agricultural University, Warsaw, Poland.)

Source: Annals of Warsaw Agricultural University, Agriculture. 1995:No. 29, p59-65

Document type: Journal article.(C) CAB International

**Effect of reduced fertilizer nitrogen application rates on yield and nitrogen recovery of sugar beet and potatoes.**

Neeteson JJ (Institute for Soil Fertility, 9750 RA Haren, Netherlands.)

Source: Netherlands Journal of Agricultural Science. 1989, 37:3, p227-236 ISSN 0028-2928

Document type: Journal article.(C) CAB International

**Effect of preceding crop on nitrogen fertilization of sugarbeet (*Beta vulgaris*) in Punjab.**

Kapur ML Kanwar RS (Sugarcane Research Station, Jalandhar 144001, Punjab, India.  
Source: Indian Journal of Agricultural Sciences. 1989, 54:4, p241-246, ISSN 0019-5022  
Document type: Journal article.(C) CAB International

**Effect of stand density and nitrogen application rate on the quality of harvested sugarbeet.**

Pulkrabek J (Vysoka Skola Zemedelska, 165 < thin > 21 Prague 6-Suchdol, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1987, 33:9, p937-948  
Document type: Journal article.(C) CAB International

**Variability of biometric traits, yield and technological quality of sugarbeet under conditions of different nitrogen fertilization.**

Wojcik S (Instytut Uprawy Roli i Roslin, AR, Lublin, Poland.)  
Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1990, 107:4, p79-90  
Document type: Journal article.(C) CAB International

**Characteristics of nitrogen metabolism of sugarbeet as guides towards a reduction in use of nitrogen fertilizer.**

Burcky KScaife A (ed.) (Inst. Sugar Beet Research, 3400 Gottingen, Germany.)  
Source: Proceedings - Congress of the European Society of Agronomy. 1990, ISBN 2-9505124-0-2  
Document type: Conference paper.(C) CAB International

**Leaching of nitrogen fertilizer applied to sugar beet.**

Shepherd MA (ADAS Gleadthorpe, Meden Vale, Mansfield, Notts NG20 9PF, UK.)  
Source: Aspects of Applied Biology. 1992:No. 30, p417-420  
ISSN 0265-1491 (Nitrate and Farming Systems)  
Document type: Journal article.(C) CAB International

**A concise simulation model for interpreting N-fertiliser trials.**

Greenwood et al. 1984.  
Source: Fertiliser Research, 5,355-69.  
Document type: Journal article.(C) CAB International

**Sugar beet response to nitrogen as affected by seasonal irrigation.**

Winter, SR. 1990.  
Source: Agronomy Journal, 82,984-8.  
Document type: Journal article.(C) CAB International

## **Nutrition - Phosphorus**

### **Phosphate fertilizer requirement of cereals and sugar beets on 'loess soils' in the southern part of Lower Saxony (F.R. of Germany).**

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

### **Effect of high superphosphate rates on the yield of sugarbeet roots and sugar as well as on sorption of the fertilizer phosphorus.**

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.)  
Source: Journal of Sugar Beet Research. 1990, 27:1-2, p11-19 ,  
ISSN 0899-1502  
Document type: Journal article.(C) CAB International

### **Interactions of nitrogen and phosphorus fertilizers for sugarbeet production.**

Qeleshi A (Institutin e Larte Bujqesor, Korce, Albania.)  
Source: Buletini i Shkencave Bujqesore. 1989, 28:2, p19-25  
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  
Document type: Journal article.(C) CAB International

### **The role of phosphate in beet crop nutrition.**

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  
Document type: Journal article.(C) CAB International

### **Early diagnosis of phosphorus deficiency in sugarbeet.**

Etchevers JDMoraghan JT (Dep. Soil Sci., North Dakota State Univ., Fargo, ND 58105, USA.)  
Source: Communications in Soil Science and Plant Analysis. 1988, 19:1, p59-68 ISSN 0010-3624  
Document type: Journal article.(C) CAB International

## **Nutrition - Potassium**

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

Milcheva M, Marinov 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

Document type: Journal article.(C) CAB International

### **Effect of potassium fertilizer application on the yield and quality of sugarbeet. II. Effect on the quality.**

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

Source: Pochvoznanie i Agrokimiya. 1990, 25:3, p10-19

Document type: Journal article.(C) CAB International

### **Response of some sugar beet varieties to potassic fertilizers under salinity conditions.**

Kandil A, Alieth 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

Document type: Conference paper.(C) CAB International

### **Research on the effects of potassium fertilizer on yield and quality of sugarbeet (*Beta vulgaris* L.) grown at Kahramanmaras.**

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

Document type: Journal article.(C) CAB International

### **Effect of potassium on the yield and quality of sugarbeet.**

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

Source: Rostlinna Vyroba. 1989, 35:6, p575-584

Document type: Journal article.(C) CAB International

### **Potassium nutrition of sugar beets.**

Moraghan JTMunson RD (ed.) (North Dakota State Univ., Fargo, North Dakota, USA.  
Source: Potassium in Agriculture. 1985, p1063-1076  
American Society of Agronomy. Madison, Wisconsin, USA (9 tab.)  
Document type: Miscellaneous.(C) CAB International

### **The role of potassium in beet cercospora (*Cercospora beticola* Sacc.) attacks on sugarbeet.**

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

## **Nutrition - Trace elements**

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

Arulamantham AR (University of California, Berkeley, CA 94720, USA.)  
Source: Dissertation Abstracts International. B, Sciences and Engineering. 1989, 50:4, p1184B O/No DA8916565. ISSN 0419-4217  
Document type: Journal article.(C) CAB International

### **Change in photosynthetic metabolism of sugarbeet with increased concentration of sodium chloride in nutrient solution.**

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  
Document type: Journal article.(C) CAB International

### **High SAR (sodium adsorption ratio) irrigation and boron phytotoxicity in sugarbeet.**

Mehrotra NKKhan SAAgarwala SC (Botany Department, Lucknow University, Lucknow 226007, Uttar Pradesh, India.)  
Source: Annals of Arid Zone. 1989, 28:1-2, p69-78, ISSN 0570-1791  
Document type: Journal article.(C) CAB International

### **Effect of agronomic practices on the content of some cations in sugarbeet.**

Hudcova M (Vyzkumny Ustav Rostlinne Vyroby, 664 < thin > 62 Hrusovany u Brna, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1990, 36:1, p71-80  
Document type: Journal article.(C) CAB International.

### **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.)  
Source: Indian Journal of Plant Physiology. 1989, 32:2, p164-168, ISSN 0019-5502  
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.)

Source: Journal of Agriculture and Water Resources Research, Soil and Water Resources. 1988, 7:1, p47-59 ISSN 1012-3482

Document type: Journal article.(C) CAB International

**Effect of different nitrogen and potassium fertilizer rates on the content of microelements in soil and sugarbeet. III. Zinc and copper.**

Filipek TChmietewska BMazur J (Katedra Chemii Rolnej, AR, Lublin, Poland.)

Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Roslinna. 1991, 108:3, p153-162

Document type: Journal article.(C) CAB International

**Effect of foliar fertilization with some micronutrients on the yield and quality of sugarbeet (*Beta vulgaris* L.).**

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

Source: Bulletin of Faculty of Agriculture, University of Cairo. 1991, 42:3, p663-672

Document type: Journal article.(C) CAB International

**Influence of boron on sugarbeet yields and quality.**

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

Document type: Journal article.(C) CAB International

**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  
Document type: Journal article.(C) CAB International

### **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  
Document type: Journal article.(C) CAB International

### **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  
Document type: Journal article.(C) CAB International

### **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  
Document type: Journal article.(C) CAB International

### **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

### **Treatment schedule for nematodes.**

(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

### **Nematodes - the hidden enemy.**

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

### **Pesticide use and trends in sugarbeet in eastern North Dakota and Minnesota.**

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

### **Biological control of the beet cyst nematode.**

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



### **Comparisons of granular pesticides for the control of soil-inhabiting arthropod pests of sugar beet.**

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

### **Gaicho - a new insecticide for controlling beet pests.**

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

### **Evaluation of nematicide treatments for control of nematodes on sugar beet.**

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

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

ISSN 0148-9038

Document type: Journal article.(C) CAB International

### **Integrated control of insect pests of sugarbeet.**

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

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

Document type: Journal article.(C) CAB International

### **Integrated protection of sugarbeet.**

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

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

ISSN 0024-4449

Document type: Journal article.(C) CAB International

### **Beet cyst nematode.**

Cooke DAMukhopadhyay AN (ed.)Kumar J (ed.)Chaube HS (ed.)Singh US[editors (ed.)(Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk, IP28 6NO, UK.)

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

Prentice-Hall International. Hemel Hempstead, UK. ISBN 0-13-678574-3

Document type: Miscellaneous(C) CAB International

### **Pests and diseases of sugar beet: a review of 1996.**

Asher MDewar A (IACR, Broom's Barn, Higham, Bury St. Edmunds, Suffolk, IP28 6NP, UK.)

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

Document type: Journal article.(C) CAB International

### **Insect pests of sugar beet.**

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

### **Protection of sugarbeet crops against foliar diseases.**

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

### **Aerial photography in the control of crop disease.**

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

Source: Chemistry and Industry (London). 1990:No. 8, p250-253 , ISSN 0009-3068

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

### **Pest and disease review of 1994.**

Asher MDewar A (Broom's Barn, IACR, UK.)

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

Document type: Journal article.(C) CAB International

### **Pest and disease problems in Chile: What lessons can be learnt?**

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

### **Sugar beet pests and diseases review of 1995.**

Dewar AAsher M (IACR, Broom's Barn, UK.)  
Source: British Sugar Beet Review. 1996, 64:1, p28-32 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

### **Compendium of beet diseases and insects.**

Whitney EDDuffus JE (ARS, USDA, Salinas, CA 93905, USA.)  
Source: Compendium of beet diseases and insects.. 1986, viii + 76pp.  
\$20. American Phytopathological Society. St. Paul, Minnesota  
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

### **Several years' studies of the reliability of ELISA for diagnosis of virus yellows in sugarbeet breeding material.**

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

### **1989 - the year of the yellow peril?**

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 populivenae 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

**The continuing story of virus yellows.**

Dewar A Smith H (Broom's Barn Experimental Station, UK.)  
Source: British Sugar Beet Review. 1990, 58:1, p15-19, ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Sugar beet rhizomania and beet mild yellowing virus studies. Report for year ended 31st March 1989.**

Sugar Beet Research and Education Committee  
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.**

Smith HG (Broom's Barn Experimental Station, Higham, Bury St. Edmunds, UK.)  
Source: 53rd Winter Congress, International Institute for Sugar Beet Research. Brussels, Palais des Congres,  
14-15 Feb. 1990. p369-377  
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  
Congres, 14-15 Feb. 1990 p399-408  
Document type: Conference paper.(C) CAB International

**Furovirus disease of sugar beets in the United States.**

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

**Beet rhizomania.**

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 CM Winter 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 R Maurer S Geissler K Fritzsche 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 P A Asher M J C (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 M P Whipps J M Cooke R C (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 H Kanzawa 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.)  
Source: Zuckerrube. 1990, 39:2, p81-84  
Document type: Journal article.(C) CAB International

**Weed control in sugarbeet. Experiences from the 1989 season and the recommendations from these for the 1990 season.**

Hecki W (Schering Geschäftsstelle, Hannover, Germany.)  
Source: Zuckerrube. 1990, 39:2, p85-87  
Document type: Journal article.(C) CAB International

**Influence of low growing weeds between the rows on the yield of sugarbeet.**

Schaufele WR (Institut für Zuckerrubenforschung, Holtenser Landstr. 77, 3400 Göttingen, Germany.)  
Source: Gesunde Pflanzen. 1991, 43:6, p175-179 ,ISSN 0367-4223  
Document type: Journal article.(C) CAB International

**Early studies on spray drift, deposit manipulation and weed control in sugar beet with two air-assisted boom sprayers.**

May MJ (Morley Research Centre, Morley, Wymondham, Norfolk NR18 9DB, UK.)  
Source: BCPC Monograph. 1991:No. 46, p89-96 , ISBN 0-948404-49-3 (Air-assisted spraying in crop protection. Proceedings of a symposium organised by the British Crop Protection Council and the Association of Applied Biologists, University College, Swansea, UK, 7-9 January 1991)  
Document type: Conference paper, Journal article.(C) CAB International

**Herbicide and variety effects on sugarbeet stand establishment.**

Fornstrom KJMiller SD (University Station, Box 3295, Laramie, WY 82071, USA.)  
Source: Journal of Sugar Beet Research. 1990, 27:1-2, p20-28 , ISSN 0899-1502  
Document type: Journal article.(C) CAB International

**Response of sugarbeet (*Beta vulgaris*) to herbicide residues in soil.**

Renner KAPowell GE (Dep. Crop Soil Sci., Michigan State Univ., E. Lansing, MI 48824, USA.)  
Source: Weed Technology. 1991, 5:3, p622-627 , ISSN 0890-037X  
Document type: Journal article.(C) CAB International

**A decision support system to aid weed control in sugar beet.**

Edwards-Jones GMumford JDNorton GATurner RProctor GHMay MJ (Silwood Centre for Pest Management, Imperial College at Silwood Park, Ascot, Berkshire, SL5 7PY,UK.)  
Source: Computers and Electronics in Agriculture. 1992, 7:1, p35-46 ,  
ISSN 0168-1699. Document type: Journal article.(C) CAB International

**Weed control for year 2000 and beyond.**

May MJ (Morley Research Centre, Wymondham, Norfolk, NR18 9DB, UK.)  
Source: 55th winter congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 12-13 February, 1992  
Document type: Conference paper.(C) CAB International

**Screening of new herbicides, products and mixtures for sugarbeet weed control,1990.**

May MJHilton JG (Morley Research Centre, Wymondham, Norfolk NR18 9DB, UK.)  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2524, p1.1.1-1.1.8  
Document type: Journal article.(C) CAB International

**Economic view on the reduction of the use of herbicides in sugarbeet.**

Niejenhuis JHvanHaverkamp HCMVan Niejenhuis JH (Department of Farm Management,Agricultural University, Wageningen, Netherlands.)  
Source: Mededelingen van de Faculteit Landbouwwetenschappen, Rijsuniversiteit Gent. 1992, 57:3b, p1013-1019  
Document type: Conference paper, Journal article.(C) CAB International

**Sequential herbicide application for weed control in sugarbeets.**

Wilson RG (Panhandle Research and Extension Center, University of Nebraska,4501 Avenue 1, Scottsbluff, NE 69361, USA.)  
Source: Journal of Sugarbeet Research. 1992, 29:1-2, p1-7  
Document type: Journal article.(C) CAB International

**Potato control in sugar beet.**

Ashfield S  
Source: British Sugar Beet Review. 1991, 59:2, p16-17 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Effect of herbicides and insecticides applied to sugarbeet at planting.**

Wilson RGHein GL (University of Nebraska, Panhandle Research and Extension Center, 4502 Avenue 1, Scottsbluff, NE 69361, USA.)  
Source: Journal of Sugarbeet Research. 1991, 28:3-4, p115-128  
Document type: Journal article.(C) CAB International

**Residues of herbicides in soil < dash > the risk for sugarbeet.**

Buryskova L

Source: Listy Cukrovarnicke a Reparske. 1993, 109:2, p33-37

Document type: Journal article.(C) CAB International

**Control of volunteer potatoes in sugar beet.**

May MJ Hilton JG (Morley Research Centre, Morley, Wymondham, Norfolk NR18 9DB,UK.)

Source: Aspects of Applied Biology. 1993:No. 35, p89-96 ISSN 0265-1491

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

**Integrated control of volunteer potatoes in cereals and sugar beet.**

Cleal RAE Hayward CFRawlings PJ (ADAS Arthur Rickwood, Mepal, Ely, Cambridgeshire CB6 2BA, UK.)

Source: Aspects of Applied Biology. 1993:No. 35, p139-148 ISSN 0265-1491

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

**The effect of herbicides on emergence and yielding of sugar beet.**

Rost K (Instytut Hodowli i Aklimatyzacji Roslin, Bydgoszcz, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1991:No. 178, p73-80

Document type: Journal article.(C) CAB International

**Possibilities for low dose herbicide mixtures for weed control in sugar beet.**

May MJ Cleal RAE (Morley Research Centre, Morley, Wymondham, Norfolk NR18 9DB,UK.)

Source: Brighton crop protection conference, weeds. Proceedings of an

international conference, Brighton, UK, 22-25 November 1993.. 1993:Vol. 1, p431-436 ISBN 0-948404-71-X. Document type: Conference paper (C) CAB International

**History of sugarbeet (*Beta vulgaris*) herbicide rate reduction in North Dakota and Minnesota.**

Dexter AG (Dep. Crop Weed Sci., North Dakota State Univ, Fargo, ND 58105, USA.)

Source: Weed Technology. 1994, 8:2, p334-337 ISSN 0890-037X

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

**Evolution of herbicide programs in sugarbeet.**

Griffiths W (Market Development, NOR-AM Chemical Co., Wilmington, DE 19803,USA.)

Source: Weed Technology. 1994, 8:2, p338-343 ISSN 0890-037X

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

**Weed control survey - 1993.**

Proctor G

Source: British Sugar Beet Review. 1993, 61:4, p30-33. ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Weed control chemicals for 1994.**

May M

Source: British Sugar Beet Review. 1994, 62:1, p5-9 ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Weed control in sugarbeet.**

May M  
Source: Agronomist. 1996:SPRING, p4-5 ISSN 0263-9882  
Document type: Journal article.(C) CAB International

**Low dose systems of weed control.**

May M (Morley Research Centre, Morley, Wymondham, Norfolk NR18 9DB, UK.)  
Source: British Sugar Beet Review. 1996, 64:1, p10-11 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Weed control chemicals for 1996.**

May M (Morley Research Centre, Morley, Wymondham, Norfolk NR18 9DB, UK.)  
Source: British Sugar Beet Review. 1996, 64:1, p6-9 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**A two spray approach to weed control.**

Hopkinson SJarvis P (British Sugar Agricultural R & D Department, Holmewood Hall, Holme, Peterborough, Cambs. PE7 3PG, UK.)  
Source: British Sugar Beet Review. 1996, 64:1, p33-35 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Two spray weed control in practice.**

Carmichael D  
Source: British Sugar Beet Review. 1996, 64:1, p36-37 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Weed control chemicals for 1997.**

May M  
Source: British Sugar Beet Review. 1997, 65:1, p8-12 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Systems approach to weed management in irrigated crops.**

Schweizer EELYbecker DWZimdahl RL (ARS-USDA, Crops Res. Lab., Colorado State Univ., Fort Collins, CO 80523, USA.)  
Source: Weed Science. 1988, 36:6, p840-845 ISSN 0043-1745  
Document type: Journal article.(C) CAB International

**Weed control in sugarbeet.**

Proctor G (Holmewood Hall Field Sta., Holme, Peterborough, PE7 3PG, UK.)  
Source: British Sugar Beet Review. 1989, 57:1, p8-11 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**British Sugar trials experience of broad-leaved weed control in sugar beet.**

Breay HT (British Sugar plc, Agric. Development Dep. Holmewood Hall, Holme, Peterborough PE7 3PG, UK.)  
Source: Aspects of Applied Biology. 1986:No.13, p41-50 ISSN 0265-1491  
Document type: Conference paper, Journal article.(C) CAB International

**Recent advances in sugar beet weed control.**

Whitehead R Marshall J Rea BL (Schering Agric., Nottingham Road, Stapleford, Nottingham NG9 8AJ, UK.)  
Source: Aspects of Applied Biology. 1986:No.13, p65-72 ISSN 0265-1491  
Document type: Conference paper, Journal article.(C) CAB International

**Crop protection of sugar beet and crop protection and quality of potatoes.**

(AAB Office, Inst. Hort. Res., Wellesbourne, Warwick CV35 9EF, UK.)UK,  
Association of Applied Biologists; UK, British Sugar PLC; UK, Potato Marketing Board; UK, Potato Processors Association  
Source: Aspects of Applied Biology. 1986:No.13, viii + 519 < thin > pp. ISSN 0265-1491  
Document type: Conference proceedings.(C) CAB International

**Weed control in sugar beet.**

Mitchell BJ (Dep. Crop Husbandry, An Foras Taluntais, Oak Park, Carlow, Co.Carlow, Irish Republic.)  
Source: Research Report, Plant Sciences and Crop Husbandry Division, An Foras Taluntais, 1986..  
undated, p10-14 An Foras Taluntais. Dublin,  
Irish Republic  
Document type: Miscellaneous.(C) CAB International

**Atrazine damage in beet grown after maize.**

Wevers J D A Elands L (Inst. voor Rationale Suikerproductie, 4600 AA Bergen op Zoom, Netherlands.)  
Source: Mededeling, Instituut voor Rationele Suikerproductie, Netherlands. 1985 :No.14, 20 < thin > pp.  
Document type: Miscellaneous.(C) CAB International

**Total weed control in sugarbeets with postemergence herbicides.**

Haderlie L C Harrington DK (Idaho Univ. Res. and Extension Cent., Aberdeen, ID 83210, USA.)  
Source: Proceedings of the Western Society of Weed Science.. 1986:Vol.39, p127  
Document type: Conference paper, Abstract only.(C) CAB International

**Weed control in sugarbeets (*Beta vulgaris*) in North America.**

Schweizer E E Dexter AG (ARS-USDA, Dep. Agric., Colorado State Univ., Fort Collins, CO 80523, USA.)  
Source: Reviews of Weed Science. 1987, 3, p113-133  
Document type: Journal article.(C) CAB International

**Integrated control of weeds in sugar beet.**

Cussans G May M (Long Ashton Res. Sta., Long Ashton, Bristol BS18 9AF, UK.)  
Source: British Sugar Beet Review. 1986, 54:3, p42-43 ISSN 0007-1854  
Document type: Journal article (C) CAB International

**Pre- and post-emergence chemical weed control in autumn sown sugarbeet.**

Cioni F Ansaloni R Bettini G  
Source: Informatore Agrario. 1990, 46:45, p71-76 ISSN 0020-0689  
Document type: Journal article.(C) CAB International



### **Controlling grass weeds for sugar beet.**

Breay HT (British Sugar, Holme, Peterborough, Cambs., UK.)

Source: Proceedings 1985 British Crop Protection Conference, Weeds.. 1985:Vol.2, p441-447

Document type: Conference paper.(C) CAB International

### **Thoughts on band spraying.**

Hopkinson S

Source: British Sugar Beet Review. 1989, 57:4, p11-12. ISSN 0007-1854

Document type: Journal article.(C) CAB International

### **Results of trials on the control of overwintering catch crops as well as old weed populations with Roundup in relation to a direct sowing of beet and maize.**

Klaassen HOhme J (Landwirtschaftliche Versuchsstation der BASF AG, 6703

Limburgerhof, German Federal Republic.)

Source: Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz. 1990:Sonderheft 12, p249-255 ,

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

### **Symptoms of herbicide damage on sugarbeet, 1990.**

May MJHilton JG (Morley Research Centre, Wymondham, Norfolk NR18 9DB, UK.)

Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2524, p1.14.1-1.14.2

Document type: Journal article.(C) CAB International

## **Irrigation**

### **Reaction of sugarbeet varieties to irrigation.**

Gutmanski IWisniewski W (Instytut Hodowli i Aklimatyzacji Roslin, Bydgoszcz,Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1988:No. 168,

p127-136

Document type: Journal article.(C) CAB International

### **Effect of saline irrigation waters on soil manganese leaching and bioavailability to sugar beet.**

Khattak RAJarrell WM (Department of Soil and Environmental Sciences, University of California, Riverside, CA 92521, USA.)

Source: Soil Science Society of America Journal. 1989, 53:1, p142-146 ,

ISSN 0361-5995 Document type: Journal article.(C) CAB International

### **Changes in qualitative and quantitative features of sugarbeet with regulation of the water regime.**

Kraslova JKaluzakova R (Vysoka Skola Zemedelska, 160 < thin > 21 Prague

6-Suchdol, Czechoslovakia.)

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

1989, 50, p299-313 Document type: Journal article.(C) CAB International

### **Response of sugar beet to non-uniform irrigation.**

Ayars JEHutmacher RBHoffman GJLeley JBen-Asher JSolomon KH (Water Management Research Laboratory, USDA-ARS, Fresno, CA 93727, USA.)

Source: Irrigation Science. 1990, 11:2, p101-109 , ISSN 0342-7188

Document type: Journal article.(C) CAB International

### **Chemical effects of saline irrigation water on a San Joaquin Valley soil: II.Field soil samples.**

Theillier CHoltzclaw KMRhoades JDSposito G (G. Sposito, Dep. Soil Sci., Univ.California, Berkeley, CA 94720, USA.)

Source: Journal of Environmental Quality. 1990, 19:1, p56-60 , ISSN 0047-2425

Document type: Journal article.(C) CAB International

### **Irrigated crops and their management.**

Bailey R

Source: Irrigated crops and their management.. 1990, 192 < thin > pp.

Farming Press Books. Ipswich, UK. ISBN 0-85236-205-6

Document type: Book.(C) CAB International

### **Visualizing interactions of water stress responses with a whole-plant simulation model.**

McCree KJFernandez CJOliveira RFdeFerraz de Oliveira R (Department of Soil and Crop Sciences, Texas A & M University, College Station, TX 77843, USA.)

Source: Crop Science. 1990, 30:2, p294-300 , ISSN 0011-183X

Document type: Journal article.(C) CAB International

### **Research on cereal and industrial crops grown under irrigated conditions.**

Picu ICraciun MULinici A (Institut de Cercetari pentru Cereale si Plante Tehnice, 8264 Fundulea, Romania.)

Source: Analele Institutului de Cercetari pentru Cereale si Plante Tehnice, Fundulea. 1987, 55, p345-366

Document type: Journal article.(C) CAB International

### **Guide crop protection with irrigation.**

Maykuss F (Pflanzenschutzamt Uelzen, Landwirtschaftskammer Hannover, German Federal Republic.)

Source: DLG-Mitteilungen. 1990, 105:10, p484

Document type: Journal article.(C) CAB International

### **Water requirement of sugarbeet and the effect of irrigation.**

Ruzsanyi L (Agrartudományi Egyetem, Debrecen 4001, Hungary.)

Source: Novenytermeles. 1990, 39:5, p423-429 ,

Document type: Journal article.(C) CAB International

### **Depth of water uptake and yield response of sugarbeet as a function of soil water potential.**

Giovanardi RCecon P (Istituto di Agronomia e Coltivazioni Erbacee, Universita di Padova, Padua, Italy.)

Source: Irrigazione e Drenaggio. 1989, 36:3, p84-89 ISSN 0394-9338

Document type: Journal article.(C) CAB International

**First evaluations of water balance in crops in rotation.**

Rizzo VMaiorana MCAstrignano AStelluti MVentrella DCarlone G (Istituto Sperimentale Agronomico, 70125 Bari, Italy.)

Source: Annali dell'Istituto Sperimentale Agronomico. 1990, 21:Supplemento 2, p95-106 , ISSN 0304-0615 (Proceedings of POC workshop held at Modena, 17-20 Apr. 1990)

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

**Response of maize and sugarbeet to irrigation in environments with different water table depths.**

Borin M (Istituto di Agronomia General e Coltivazioni Erbacee, Universita diPadova, Padua, Italy.)

Source: Irrigazione e Drenaggio. 1989, 36:4, p16-20 ,ISSN 0394-9338

Document type: Journal article.(C) CAB International

**Pattern of irrigation water distribution and harvesting date in sugarbeet (Beta vulgaris L. var. saccharifera).**

D'Amato AGiordano IAndriani MG (Istituto Sperimentale per le Colture Industriali, Bologna Italy.)

Source: Irrigazione e Drenaggio. 1989, 36:4, p66-69 , ISSN 0394-9338

Document type: Journal article.(C) CAB International

**Yield response of sugarbeet to irrigation regime in different environmental conditions.**

Amaducci MTCucci GCaro AdeGherbin PMambelli SVenturi GDe Caro A

Source: Irrigazione e Drenaggio. 1989, 36:4, p153-159 ,ISSN 0394-9338

Document type: Journal article.(C) CAB International

**The characterization of the effects of irrigation on the crop rotation spring wheat, sugar beets, phaseolus-beans and onions.**

Pauler BNeumann KHScaife A (ed.) (Inst. of Pflanzenernahrung der J.L.-Universitat, 6300 Giessen, Germany.)

Source: Proceedings - Congress of the European Society of Agronomy. 1990, p2P22, ISBN 2-9505124-0-2

Document type: Conference paper.(C) CAB International

**The effect of irrigating interval systems and dates of lifting on some characteristics of sugar beet (Beta vulgaris L.) and approach a new manufacturing priority index.**

Tayfur HA (Field Crops Department, College of Agriculture and Forestry, Mosul University, Hamman Al-Alil, Mosul, Iraq.)

Source: Mesopotamia Journal of Agriculture. 1990, 22:2, p263-278

ISSN 0379-7791 Document type: Journal article.(C) CAB International

**Differential irrigation regime for sugarbeet in the East Slovakian lowland.**

Tkac JTkac J, Jr (Ustav Zavlahoveho Hospodarstva, 825 < thin > 63 Bratislava,Czechoslovakia.)

Source: Vedecke Prace Ustavu Zavlahoveho Hospodarstva. 1990:No. 19, p203-215

Document type: Journal article.(C) CAB International

**Research on the water use of sugarbeet crops in forecasting and alerting water applications in the irrigation systems of Transylvania.**

Nagy ZTurdean A (Institutul Agronomic, 3400 Cluj-Napoca, Romania.)  
Source: Buletinul Institutului Agronomic Cluj-Napoca. Seria Agricultura si Horticultura. 1991, 45:2, p47-52  
Document type: Journal article.(C) CAB International

**Optimizing the irrigation regime at different planting densities of sugar beet on marshy black soils.**

Milivojevic JDusic DNedic M (Fac. Agric., Dep. of Irrigation and Drainage, Univ. Belgrade, 11080 Zemun, Nemanjina 6, Yugoslavia.)  
Source: Proceedings 16th ICID European regional conference. Vol. 2. Ecological, technological and socio-economical impacts on agricultural water management. 1992, p197  
Document type: Conference paper.(C) CAB International

**Plant density and sprinkler irrigation of sugarbeets in central Greece.**

Zarogiannis V (Study Group on Agricultural Machinery and Irrigation Methods, College of Agricultural Engineering, Larisa, Greece.)  
Source: Zeitschrift fur Kulturtechnik und Landentwicklung. 1992, 33:5, p286-294  
Document type: Journal article (C) CAB International

**Estimation of suitability of balance methods in the sprinkler irrigation control in the cultivation of sugar beets on light silty loam.**

Wisniewski N (Zak < l > ad Technologii Produkcji Roslin Korzeniowych, Instytut Hodowli i Aklimatyzacji Roslin. Bydgoszcz, Poland.)  
Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1991:No. 178, p33-40  
Document type: Journal article.(C) CAB International

**Sugar beet production as influenced by limited irrigation.**

Davidoff, B and Hanks RJ. 1989.  
Source: Irrigation Science, 10, 1-17.  
Document type: Journal article.(C) CAB International

**Effect of irrigation on sugarbeet yields.**

Svachula V (Vysoka Skola Zemedelska, 160 < thin > 21 Prague-6, Czech Republic.)  
Source: Rostlinna Vyroba. 1993, 39:6, p543-550  
Document type: Journal article.(C) CAB International

**Effect of drought and number of irrigation treatments on yield and quality of sugarbeet (*Beta vulgaris saccharifera* L.).**

Ak < dotless i > nerdem F (Tarla Bitkileri Bolumu, Selcuk Universitesi, Konya, Turkey.)  
Source: Doga, Turk Tar < dotless i > m ve Orman < dotless i > l < dotless i > k Dergisi. 1992, 16:4, p757-762  
Document type: Journal article.(C) CAB International

**Effect of irrigation on yield, sucrose content and impurity levels of sugarbeet crop.**

Kumar V (Agriculture Research Station, Rajasthan Agricultural University, Sri Ganganagar 335001, India.)  
Source: Journal of the Indian Society of Soil Science. 1993, 41:1, p26-28 , 9 ISSN 0019-638X  
Document type: Journal article.(C) CAB International

**Response of sugar beets to irrigation frequency and cut off on a clay loam soil.**

Howell, TA et al. 1987.  
Source: Irrigation Science, 8, 1-11.  
Document type: Journal article.(C) CAB International

**A study on optimum irrigation system of sugarbeet in Hetao irrigation area,China.**

Zeng SXLiu QH (Northeast Agricultural College, Harbin, Heilongjiang, China.)  
Source: China Sugarbeet. 1992:No. 3, p19-22  
Document type: Journal article.(C) CAB International

**Strategies for the sub-optimal irrigation of sugar beet.**

Groves SJBailey RJ (ADAS Gleadthorpe, Medan Vale, Mansfield, Notts. NG20 9PF,UK.)  
Source: Aspects of Applied Biology. 1994:No. 38, p201-207 .Efficiency of  
water use in crop systems, Reading, UK, 6-8 July 1994. ISSN 0265-1491  
Document type: Conference paper, Journal article.(C) CAB International

**The economics of irrigation in Britain.**

Morris J (Silsoe College, Cranfield University, Silsoe, Bedfordshire MK45 4DT,UK.)  
Source: Aspects of Applied Biology. 1994:No. 38, p321-331  
ISSN 0265-1491  
Document type: Journal article.(C) CAB International

**The costs and returns from irrigating sugar beet.**

Groves SJWells A (ADAS, Gleadthorpe Grange, UK.)  
Source: British Sugar Beet Review. 1993, 61:1, p21-23 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**A model for estimating soil moisture changes as an aid to irrigation scheduling and crop water-use studies: II. Field test of the model.**

Bailey RJGroves SJSpackman E (ADAS Gleadthorpe Land Research Centre, Medan Vale, Notts, NG20 9PF, UK.)  
Source: Soil Use and Management. 1996, 12:3, p129-133. ISSN 0266-0032  
Document type: Journal article.(C) CAB International

**Requirements of successful and effective irrigation in sugarbeet cultivation.**

Ruzsanyi L (Novenytermesztet Tanszek, Agrartudomanyi Egyetem, Debrecen, Hungary.)  
Source: Cukoripar. 1996, 49:2, p57-62 ISSN 0011-2720  
Document type: Journal article.(C) CAB International

**Effect of irrigation on sugarbeet yield and quality.**

Vanl < dotless i > N  
Source: Seker. 1988, 20:123, p47-52  
Document type: Journal article.(C) CAB International

**Sugar beet production as influenced by limited irrigation.**

Davidoff BHanks RJ (Dep. Soils and Biometeorology, Utah State Univ., Logan, UT 84322, USA.)  
Source: Irrigation Science. 1989, 10:1, p1-17 ISSN 0342-7188  
Document type: Journal article.(C) CAB International

**Reuse of drainage water for irrigation: results of Imperial Valley study. II. Soil salinity and water balance.**

Rhoades JDBingham FTLetey JPinter PJ, JrLemert RDAIves WJHoffman GJReplogle JA Swain  
RVPacheco PG (USDA-ARS, U. S. Salinity Lab., Riverside, CA 92501, USA.)  
Source: Hilgardia. 1988, 56:5, p17-44 ISSN 0073-2230  
Document type: Journal article.(C) CAB International

**Reuse of drainage water for irrigation: results of Imperial Valley study. I. Hypothesis, experimental procedures, and cropping results.**

Rhoades JDBingham FTLetey JDedrick ARBean MHoffman GJAlves WJSwain RVPacheco PG Lemert  
RD (USDA-ARS, U. S. Salinity Lab., Riverside, CA 92501, USA.)  
Source: Hilgardia. 1988, 56:5, p1-16 ISSN 0073-2230  
Document type: Journal article.(C) CAB International

**Water use efficiency of sugarbeet (*Beta vulgaris* L.) under semi-arid and sub-tropical climate.**

Bains BSNarang RS (Dep. Agron., Punjab Agric. Univ., Ludhiana 141004, India.)  
Source: Indian Journal of Agronomy. 1988, 33:3, p283-286 ISSN 0537-197X  
Document type: Journal article.(C) CAB International

**A simulation model for irrigation scheduling under variable rainfall.**

Villalobos FJFereres E (Hort. Dep., SIA Extremadura, Badajoz, Spain.)  
Source: Transactions of the ASAE. 1989, 32:1, p181-188 ISSN 0001-2351  
Document type: Journal article.(C) CAB International

**Effect of planting pattern on sugarbeet (*Beta vulgaris*) yield in waterlogged soils with saline irrigation.**

Thind HSHira GS (Punjab Agricultural University, Ludhiana 141004, India.)  
Source: Indian Journal of Agricultural Sciences. 1989, 59:1, p57-58  
ISSN 0019-5022  
Document type: Journal article (C) CAB International

**Effect of irrigation and nitrogen fertilizer application on sugarbeet root yield and quality in different crop rotations on light soils.**

Simon J (Vyzkumny Ustav Rostlinne Vyroby, 161 < thin > 06 Prague 6-Ruzyne, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1987, 33:9, p965-974  
Document type: Journal article.(C) CAB International

**Crop response to non-uniform irrigation.**

Ayars JEHutmacher RBHoffman GJLetey JBen-Asher JSolomon KH (USDA-ARS, Water Management Res. Lab., Fresno, CA 93727, USA.)  
Source: Paper, American Society of Agricultural Engineers. 1987:No.87-2110  
Document type: Miscellaneous.(C) CAB International

**Effect of irrigation on yield and sucrose content of sugar beet (*Beta vulgaris* L. var. *saccharifera*) under two fertilization regimes in Osorno, Chile.**

Nissen M, JVargas T, HDaroch P, R (Fac. Ciencias Agrarias, Univ. Austral de Chile, Casilla 567, Valdivia, Chile.)

Source: Agro Sur. 1987, 15:1, p19-25 ISSN 0304-8802

Document type: Journal article.(C) CAB International

**Irrigation of sugar beet: the main effects.**

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

Source: British Sugar Beet Review. 1988, 56:3, p34-37 ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Water use and fibrous root growth of sugar beet.**

Brown K

Source: Water use and fibrous root growth of sugar beet..

British Reports, Translations and Theses, 88-04-02D-004.) O/No British Library LD:D80304. Nottingham University, UK (254 < thin > pp.)

Document type: Thesis.(C) CAB International

**Sugar beet production under centre-pivot irrigation with different rates of nitrogen.**

Roberts et al. 1980.

Source: Washington State University College of Agricultural Research.

Bulletin No. 0884, 5pp.

Document type: Research Report.(C) CAB International

**Water management systems for high value crops.**

Desmond EDKretchman DWSchwab GO (Ohio Agric. Res. & Development Center, Ohio State Univ., Columbus, OH, USA.)

Source: Drainage design and management. Proceedings of the Fifth National Drainage Symposium, December 14-15, 1987, Hyatt Regency Chicago in Illinois Center.. 1987, p136-141 ISBN 0-916150-88-7

Document type: Conference paper.(C) CAB International

**Study on the optimum spacing for sugarbeet under irrigated conditions in hilly areas of Transylvania.**

Nagy ZBianu FNagy MTurdean A (Inst. Agron., Cluj-Napoca, Romania.)

Source: Buletinul Institutului Agronomic Cluj-Napoca, Agricultura. 1985, 39, p49-52

Document type: Journal article.(C) CAB International

**Water requirements of beet transplanted in irrigated fields.**

Yonts CDSmith JAKerr EDRobb JGWilson RG (Nebraska Univ., Panhandle Res. And Extension Cent., Scottsbluff, Nebraska, USA.)

Source: 49th Winter Congress, International Institute for Sugar Beet Research..1986, p155-164

Document type: Conference paper.(C) CAB International

**Effect of irrigation at various nitrogen fertilizer rates on sugarbeet yield and quality.**

Elverenli A

Source: Seker. 1986, 19:118, p13-24

Document type: Journal article.(C) CAB International

**Irrigation of sugar beet < dash > a survey.**

Dunham RMessemer ATurner R (Broom's Barn Exp. Sta., Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: British Sugar Beet Review. 1987, 55:2, p30-34 ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Sugarbeet irrigation. Trials in the Duero valley.**

Urbano PARroyo JMConde JRRojo CGonzalez F (Departamento de Produccion Vegetal:Fitotecnia, Universidad Politecnica de Madrid, Madrid, Spain.)

Source: Agricultura, Revista Agropecuaria. 1992, 61:718, p380-385

ISSN 0002-1334. Document type: Journal article.(C) CAB International

**Response of sugar beet to non-uniform irrigation.**

Ayars et al. 1990.

Source: Irrigation Science, 11, 101-9.

Document type: Journal article.(C) CAB International

**Root yield and quality of sugarbeet cultivars grown with or without irrigation.**

Barta VMala S (Vyskumny Ustav Zavlahoveho Hospodarstva, 825 63 Bratislava,Slovakia.)

Source: Vedecke Prace Vyskumneho Ustavu Zavlahoveho Hospodarstva v Bratislava.1994:No. 21, p13-24

Document type: Journal article.(C) CAB International

**Transplanted sugarbeet response to irrigation at transplanting.**

Yonts CDSmith JAWilson R GKerr EDRobb JG (Agric. Engineering Dep., Univ. Nebraska Panhandle Res. and Extension Cent., Scottsbluff, NE, USA.)

Source: Transactions of the ASAE (American Society of Agricultural Engineers) 1986, 29:5, p1254-1258(Presented as ASAE Paper No.85-1017)

Document type: Journal article.(C) CAB International

**Irrigated sugar beet root yield in the Texas High Plains.**

Lansford, VD et al. 1989.

Source: Journal of Sugar Beet Research, 26, 50-62.

Document type: Journal article.(C) CAB International

**Irrigation as a solution to salinity problems of river systems.**

Dutt GRPennington DATurner F JrFrench RH (ed.) (Soils, Water and Engineering Dep., Univ. of Arizona, Tucson, AZ, USA.)

Source: Salinity in watercourses and reservoirs. 1983, p465-472

Salinity in watercourses and reservoirs Butterworth Publishers.

Stoneham, MA, USA

Document type: Conference paper.(C) CAB International

**Responses of sugarbeet to deficit, high-frequency sprinkler irrigation. I.Sucrose accumulation, and top and root dry matter production.**

Hang ANMiller DE (Coll. of Agric., Washington State Univ., Pullman, WA 99164,USA.)

Source: Agronomy Journal. 1986, 78:1, p10-14 ISSN 0002-1962

Document type: Journal article.(C) CAB International



**Responses of sugarbeet to deficit, high-frequency sprinkler irrigation. II. Sugarbeet development and partitioning to root growth.**

Hang AN Miller DE (Dep. of Agron., Washington State Univ., Pullman, WA 99164, USA.)  
Source: Agronomy Journal. 1986, 78:1, p15-18 ISSN 0002-1962  
Document type: Journal article.(C) CAB International

**Water management effects on N-use by corn and sugarbeets.**

Reichman GA Doering EJ Benz LC (USDA-ARS, Northern Great Plains Res. Cent., Mandan, North Dakota, USA.)  
Source: Transactions of the ASAE. 1986, 29:1, p198-202, ISSN 0001-2351  
Document type: Journal article.(C) CAB International

**Simulated crop-water production functions for several crops when irrigated with saline waters.**

Letey JDinar A (Dep. of Soil and Envir. Sci., California Univ., Riverside, CA 92521, USA.)  
Source: Hilgardia. 1986, 54:1, p1-32 ISSN 0073-2230  
Document type: Miscellaneous.(C) CAB International

**Optimal irrigation management under poor drainage and saline conditions.**

Letey JDinar AKnapp KC (Dep. of Soil and Environmental Sciences, Univ. of California, Riverside, CA, USA.)  
Source: California Agriculture. 1986:Jan-Feb, p20-21 ISSN 0008-0845  
Document type: Journal article.(C) CAB International

**Water-table and irrigation effects on corn and sugarbeet.**

Benz LCDoering EJ Reichman GA (USDA-ARS, Northern Great Plains Res. Center, Mandan, ND, USA.)  
Source: Transactions of the ASAE (American Society of Agricultural Engineers). 1985, 28:6, p1951-1956.  
Presented as ASAE Paper No. 84-2624)  
Document type: Journal article.(C) CAB International

**Results of research on the irrigation regime and water uptake in the main field crops in the hill zone of Transylvania.**

Nagy Z Bianu FTurdean A (Institutul Agronomic 'Dr. Petru Groza', 3400 Cluj-Napoca, Romania.)  
Source: Probleme de Agrofitehnie Teoretica si Aplicata. 1989, 11:2, p147-166  
Document type: Journal article.(C) CAB International

**Estimation of water balance based on soil moisture content and evaporative demand.**

Jain TC Rao GN (Department of Statistics and Mathematics, College of Agriculture, Rajendranagar, Hyderabad 500 030, India.)  
Source: Journal of Research APAU. 1988, 16:2, p181-182, ISSN 0970-0226  
Document type: Journal article.(C) CAB International

**Effect of sprinkling irrigation and various doses of fertilizers on yield of sugar beets cultivated on two types of soil.**

Nowicka SKarczmarczyk SZbiec IReznicek R (ed.) (Academy of Agriculture, Szczecin, Poland.) Source: Physical properties of agricultural materials and products. Proceedings of the 3rd International Conference, August 19-23, 1985, Prague, Czechoslovakia. 1988, p709-716,

Hemisphere Publishing Corporation. New York, USA. ISBN 0-89116-677-7  
Document type: Conference paper.(C) CAB International

**Research on the establishment of the optimal moisture depth of soil for sugarbeet.**

Nagy ZTurdean A (Institutul Agronomic, 3400 Cluj-Napoca, Romania.)  
Source: Buletinul Institutului Agronomic Cluj-Napoca. Seria Agricultura si Horticultura. 1991, 45:1, p117-122 ,  
Document type: Journal article.(C) CAB International

**Irrigated sugarbeets: yield response and profit implications, Texas High Plains.**

Lansford VDWinter SRHarman WL (Texas Agricultural Experiment Station, Amarillo,Texas, USA.)  
Source: Bulletin - Texas Agricultural Experiment Station. 1990:No. B-1653, 12pp. ISSN 0096-6061  
Document type: Miscellaneous.(C) CAB International

**Sugar-beet treatments, water supply and depth of sowing.**

Durrant MJMash SJ (AFRC Institute of Arable Crops Research, Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)  
Source: Annals of Applied Biology. 1992, 120:1, p151-159 ISSN 0003-4746  
Document type: Journal article.(C) CAB International

**Influence of seasonal irrigation amount on sugar beet yield and quality.**

Winter, SR. 1988.  
Source: Journal of Sugar Beet Research, 25, 1-9.  
Document type: Journal article.(C) CAB International

**Influence of sprinkler irrigation, plant density and nitrogen fertilizer application on sugarbeet yield.**

Borowczak F (Katedra Uprawy Roli i Roslin, AR, Poznan, Poland.)  
Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1991:No. 178, p23-31  
Document type: Journal article (C) CAB International

**Micro sprinkler irrigation and its effect on sugarbeet yield and sugar content.**

Cukaliev OIljovski IMitchell JK (ed.) (Faculty of Agriculture, 91000 Skopje,Macedonia.)  
Source: Integrated resource management & landscape modification for environmental protection. Proceedings of the International Symposium. Chicago, Illinois, USA, 13-14 December, 1993 ISBN 0-929355-43-1  
Document type: Conference paper (C) CAB International

## **Harvesting and storage**

**Development of sugarbeet harvesting technology.**

Kromer KH (Institut fur Landtechnik, Nussallee 5, 5300 Bonn, German Federal Republic.)  
Source: Landtechnik. 1989, 44:9, p341-343 , 8 ref. ISSN 0023-8082  
Document type: Journal article (C) CAB International

**Transport organization for sugarbeet delivery : preferences and suggestions of the sugarbeet factory.**

Kessel WCvon (Nordharzer Zucker AG, 3342 Schladen, German Federal Republic.)  
Source: Landtechnik. 1989, 44:9, p343-346. ISSN 0023-8082  
Document type: Journal article (C) CAB International

**Soil from the sugarbeet harvest in the factory - a problem.**

Muhlack E (Suddeutsche Zucker AG, Werk Regensburg, Straubinger Str. 18, 8400 Regensburg, German Federal Republic.)  
Source: Landtechnik. 1989, 44:9, p348-350 , ISSN 0023-8082  
Document type: Journal article (C) CAB International

**Effect of harvesting date on the yields of roots and sugar of sown and transplanted sugarbeet cultivars.**

Ivanek VToth SIvanek-Martincic M (Poljoprivredni Institut, 43260 Krizevci, Yugoslavia.)  
Source: Poljoprivredna Znanstvena Smotra. 1989, 54:3-4, p167-178 , ISSN 0370-0291  
Document type: Journal article.(C) CAB International

**Examination of the effect of mechanical harvesting on differences in the quality and quantity of sugarbeet.**

Tosic MBozic S (Poljoprivredni fakultet Univerziteta u Beogradu, Belgrade, Yugoslavia.)  
Source: Industrija Secera. 1989, 43:3-4, p56-62  
Document type: Journal article.(C) CAB International

**Postharvest biotechnology of sugar crops.**

Salunkhe DKDesai BB (Department of Nutrition and Food Science, Utah State University, Logan, Utah, USA.)  
Source: Postharvest biotechnology of sugar crops. 1988, 219 pp. , 506 CRC Press, Inc.. Boca Raton, Florida, USA. ISBN 0-8493-4578-2  
Document type: Book.(C) CAB International

**Studies on storage rot of sugar beets. 3. Influence of storage rot by Botrytis cinerea on sugar beets.**

Kanzawa KUchino HSayama KMuratsubaki T (Research Center, Nippon Beet Sugar Mfg.Co., Ltd., Obihiro 080, Japan.)  
Source: Proceedings of the Sugar Beet Research Association, Japan. 1986:No. 28, p154-159 ,  
Document type: Journal article.(C) CAB International

**Cleaning sugarbeets with fiber brushes.**

Moden WL, IIPeterson CLHall MC (Department of Agricultural Engineering, University of Idaho, Moscow, ID 83843, USA.)  
Source: Applied Engineering in Agriculture. 1989, 5:4, p501-506  
ISSN 0883-8542 (Presented as ASAE Paper No. 87-1033)  
Document type: Journal article (C) CAB International

**Recent advances in sugar transport.**

Lucas WJMadore MAPreiss J (ed.) (Department of Botany, University of California, Davis, CA 95616, USA.)  
Source: The biochemistry of plants. A comprehensive treatise. Volume 14.

Carbohydrates. 1988, p35-84 , ISBN 0-12-675414-4  
Document type: Book chapter.(C) CAB International

**Sugar beet harvesting with minimal losses (Review).**

Hancarova D (Ustav Vedeckotechnických Informací pro Zemědělství, Slezská 7, 120 56 Prague 2-Vinohrady, Czechoslovakia.)  
Source: Vedeckotechnický Rozvoj v Zemědělství. 1990:No. 27, 66 pp. ,  
Document type: Miscellaneous.(C) CAB International

**Sugarbeet harvesting. I - Simple machines.**

Walter JF (CEMAGREF, Groupement de Rennes, 17 Avenue du Cucille, 35044 Rennes Cedex, France.)  
Source: Bulletin Technique du Machinisme et de l'Équipement Agricoles. 1990:No. 54, p19-20, 25-35 ,  
ISSN 0299-8661  
Document type: Journal article.(C) CAB International

**Soil compaction caused by sugar beet harvesting.**

Gruber W Brokjan T (Institut für Landtechnik, Braugasse 7, 6300 Giessen, Germany.)  
Source: Landtechnik. 1991, 46:1/2, p43-45 ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**Effect of harvesting conditions on the quality of sugarbeet sown in autumn.**

Morillo-Velarde R Gordo L (AIMCRA, Valladolid, Spain.)  
Source: 53e Congrès d'Hiver, Institut International de Recherches Betteravières.. 1990, p295-305 ,  
Document type: Miscellaneous.(C) CAB International

**Effect of topping height of sugarbeet roots at harvest on their technological quality.**

Zahradnický J Schmidt L Ondráček M Kotýk A Svachula V Vrátný P Jary J (Výzkumný Ústav Cukrovarnický, 140 00 Prague-4, Czechoslovakia.)  
Source: Rostlinná Výroba. 1990, 36:10, p1095-1104  
Document type: Journal article.(C) CAB International

**Total time requirements and operating costs for sugar beet harvesting.**

Simons J (Institut für Landtechnik, Nussallee 5, 5300 Bonn, Germany.)  
Source: Landtechnik. 1991, 46:9, p419-422 , ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**Cleaning and loading of sugar beets.**

Aumann H (Naheweinstrasse 37, 6351 Guldental, Germany.)  
Source: Landtechnik. 1991, 46:9, p422-424 ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**Extracting sugar beets in the future - new sugar beet lifting tools for purposeful individual beet lifting with little soil attached.**

Schuh JPHohn K (Institut für Agrartechnik, Martin-Luther-Universität Halle-Wittenberg, Ludwig-Wucherer-Strasse 81, 4020 Halle, Germany.)  
Source: Landtechnik. 1991, 46:9, p425-429, ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**Sugar losses during storage.**

Vandergeten JP (Institut Royal Belge pour l'Amélioration de la Betterave, Tienen, Belgium.)  
Source: 53rd Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 14-15 February 1990.. 1990, p245-269  
Document type: Conference paper.(C) CAB International

**Cleaner loader usage in Great Britain.**

Farrow B (British Sugar plc, Holmewood Hall, Holme, Peterborough, PE7 3PG, UK.)  
Source: 53rd Winter Congress of the International Institute for Sugar Beet Research. Proceedings of a conference held in Brussels, Belgium, 14-15 February 1990.. 1990, p199-207  
Document type: Conference paper.(C) CAB International

**Beet storage and quality.**

Armstrong MHoughton BMcMillan P (British Sugar Agricultural R & D, Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 < thin > 6NP, UK.)  
Source: British Sugar Beet Review. 1992, 60:3, p18-20, 22-23 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Clamping < dash > the only safe way to store beet.**

Hollowell B  
Source: British Sugar Beet Review. 1992, 60:3, p25-26 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Losses in sugar beet yield, as depending on harvest time and the technical availability of harvesters.**

Kochan J (Vyzkumny a Vyojovy Ustav STS a OZS, Cernokostelecka 116, 100 32, Prague 10-Malesice, Czechoslovakia.)  
Source: Zemedelska Technika. 1991, 37:2, p79-89 Document type: Journal article(C) CAB International

**New tractors plus old adapters in the harvesting of sugar beet.**

Fuzy J  
Source: Mezogazdasagi Technika. 1992, 33:3, p10-11 [Hungarian; english]  
Hungarian Agricultural Review, 1993, 42 (1), No. 188.)  
Document type: Journal article.(C) CAB International

**Sugarbeet processing < dash > a little different angle.**

Norman LW  
Source: Sugar Journal. 1993, 56:5, p4-5 ISSN 0039-4734  
Document type: Journal article.(C) CAB International

**Good clamping < dash > practice makes perfect.**

Pettit D (York Factory, British Sugar plc, PO Box 17, York YO1 < thin > 1XF,UK.)  
Source: British Sugar Beet Review. 1993, 61:3, p44-45 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Post-harvest studies for efficient produce management in sugarbeet.**

Singh NToor SSNarang RS (Sugarcane Research Station, Punjab Agricultural  
University, Jalandhar 144 < thin > 001, India.)  
Source: Indian Sugar. 1993, 43:7, p505-510 , ISSN 0019-6428  
Document type: Journal article.(C) CAB International

**What's left in the field? Three-year Nebraska study looks at sugarbeet harvest loss.**

Smith JYonts CDPalm K (University of Nebraska Panhandle Research & Extension Center, Scottsbluff,  
NE, USA.)  
Source: Sugar Journal. 1996, 58:8, p10-11 ISSN 0039-4734  
Document type: Journal article.(C) CAB International

**Sugarbeet processing in a sugarcane factory.**

Cole FClarke MA (M.A. Patout and Son Ltd., Patoutville, Jeanerette, LA 70644,USA.)  
Source: Sugar Journal. 1996, 59:5, p20-23 ISSN 0039-4734 (  
presented at the Irish Sugar Co. International Technical Conference, 10-13 June 1991)  
Document type: Journal article, Conference paper.(C) CAB International

**The mobile tarehouse: first full trials season.**

Brooks D (British Sugar plc, PO Box 26, Oundle Rd., Peterborough PE2 9QU, UK.)  
Source: British Sugar Beet Review. 1988, 56:2, p12-13 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**How to minimise losses in storage.**

Houghton BMcMillan P (British Sugar Scientific and Technical Services, Norwich NR4 7UB, UK.)  
Source: British Sugar Beet Review. 1991, 59:3, ISSN 0007-1854  
Document type: Journal article.(C) CAB International

**Yield and quality**

**Economic assessment of maximum yield experiments carried out on arable farms in the GDR in 1985-87.**

Lange JRathsmann K (Forschungszentrum fur Bodenfruchtbarkeit, 1278 Munchenberg, German Democratic  
Republic.)  
Source: Archiv fur Acker- und Pflanzenbau und Bodenkunde. 1989, 33:9, p529-537  
Document type: Journal article.(C) CAB International

**Influence of topping height at sugarbeet harvest on beet yield and technological quality. II. Beet storage life and technological indices at separate beet processing.**

Zahradnicek JTicha BDuffek MSmatlak VBohuslavska M (Cukrovarnický Průmysl Státní Podnik Vedeckotechnických a Obchodních Služeb, Vyzkumný Ústav Cukrovarnický, Prague, Czechoslovakia.)  
Source: Listy Cukrovarnické. 1989, 105:11, p241-250 ,  
Document type: Journal article.(C) CAB International

**Evaluation of sugarbeet quality.**

Tsukada MTakada S (Shimizu Beet Sugar Factory of the Hokuren Federation of Agricultural Cooperatives, Shimizu 089-01, Japan.)  
Source: Proceedings of Japanese Society of Sugar Beet Technologists. 1988:No. 30, p68-72 ,  
Document type: Journal article.(C) CAB International

**Optimization of plant numbers and distribution as well as yield and quality traits in sugarbeet production. 1. Mathematical models to describe plant populations.**

Kastner B (Institut für Rubenforschung Kleinwanzleben, 3105 Kleinwanzleben, Germany.)  
Source: Zuckerindustrie. 1990, 115:6, p458-465 , ISSN 0344-8657  
Document type: Journal article.(C) CAB International

**Effect of a balanced nutrient supply on the yield and quality parameters in sugarbeet.**

Bartos AFekete ASarvari B (Agrártudományi Egyetem, Keszthely 8360, Hungary.)  
Source: XIX HUNGAGROCHEM Konferencia 1989. Mutragyazas, novenyvedelem.. 1989, p225-233 , ISBN 963-8101-47-4  
Document type: Conference paper.(C) CAB International

**Assessment of beet quality including rhizomania-infected beet.**

Pollach GHein WRosner GBerninger H (Zuckerforschungs-Institut Fuchsenbigl, 2286 Haringsee, Austria.)  
Source: Zuckerindustrie. 1991, 116:8, p689-700 , 31 ref. ISSN 0344-8657 (presented at 19th General Assembly of CITS, Cambridge, UK, 24-28 June 1991)  
Document type: Journal article.(C) CAB International

**Contribution of some controllable and uncontrollable factors on sugarbeet yields.**

Vrkoc FSuskevic M (Vyzkumný Ústav Rostlinné Vyroby, 161 06 Prague-6, Czechoslovakia.)  
Source: Rostlinná Vyroba. 1990, 36:10, p1019-1024 ,  
Document type: Journal article.(C) CAB International

**Relations between soil fertility parameters and sugarbeet yield and quality characteristics on haplic chernozem soils.**

Koppen DRostock E (Lehrstuhl Ackerbau, Universität Rostock, 2500 Rostock, Germany.)  
Source: Zeitschrift für Pflanzenernährung und Bodenkunde. 1991, 154:2, p137-142  
Document type: Journal article.(C) CAB International

**Physiology of sugar beet quality.**

Leigh RABell CIPaul MJJones J (AFRC Institute of Arable Crops Research, Rothamsted Experimental Station, Harpenden, Herts AL5 2JQ, UK.)  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2525, 16 pp.  
Document type: Miscellaneous.(C) CAB International

**Yield and technological qualities of sugarbeet with increasing fertilizer rates.**

Oga TSLimputsis YaYaShtikans YuA (ed.) (Latvian Research Institute of Agriculture, Skriveri, Latvia.)

Source: Udobrenie polevykh kul'tur v sisteme intensivnogo zemledeliya. 1990, p140-145 Zinatne. Riga, Latvia. ISBN 5-7966-0380-9

Document type: Miscellaneous.(C) CAB International

**Dependence of yield formation and quality on nutrient uptake in sugarbeet.**

Strnad P Javurek M (Vyzkumna Stanice Rostlinne Vyroby, 286 01 Caslav, Czechoslovakia.)

Source: Rostlinna Vyroba. 1991, 37:5, p405-412

Document type: Journal article.(C) CAB International

**Yield and processing quality of sugarbeet depending on cultivation method and level of phosphorus and potassium fertilizers.**

Gutmanski IMusolff M (Zak < 1 > ad Technologii Produkcji Roslin Korzeniowych, IHAR, Bydgoszcz, Poland.)

Source: Roczniki Nauk Rolniczych. Seria A, Produkcja Rostlinna. 1991, 108:3, p107-124

Document type: Journal article.(C) CAB International

**Remote sensing to predict the yield of sugar beet in England.**

Jaggard KW Clark CJ A Steven MD (ed.) Clark JA (ed.) (AFRC Institute of Arable Crops Research, Broom's Barn, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: Applications of remote sensing in agriculture. 1990, p201-206 , ISBN 0-408-04767-4

Document type: Miscellaneous.(C) CAB International

**Cultivars, harvesting dates and their effect on yield and quality of sugar beet.**

Besheit SYEI-Gharbawy AA (Sugar Crops Research Institute, Agriculture Research Centre, Giza, Egypt.)

Source: Annals of Agricultural Science, Moshtohor. 1991, 29:2, p717-728

Document type: Journal article.(C) CAB International

**High yield and quality < dash > a contradiction in sugarbeet growing?**

Marlander B (Institut fur Zuckerrubenforschung, 3400 Gottingen, Germany.)

Source: Zuckerindustrie. 1992, 117:11, p908-912 ISSN 0344-8657

Document type: Journal article.(C) CAB International

**Sugarbeet yield and potential number of crops on the same site.**

Zuliene R

Source: Lietuvos Zemdirbystes Instituto Mokslo Darbai, Zemdirbyste. 1991:No. 39 p132-142

Document type: Journal article.(C) CAB International

**The determination of sugar beet technological value.**

Bichsel SETungland BCDarrow PO (Research and Development Center, Imperial Holly Corporation, Colorado Springs, CO 80918, USA.)

Source: Journal of Sugar Beet Research. 1993, 30:1-2, p82. ISSN



0899-1502 (Abstract presented at the 27th general meeting of the American Society of Sugar Beet Technologists, Anaheim, CA, USA, 3-6 March 1993)  
Document type: Conference paper, Journal article.(C) CAB International

**Payment of sugar beet according to quality.**

Hoogerkamp D (Institute for Sugar Beet Research, Netherlands.)  
Source: Journal of Sugar Beet Research. 1993, 30:1-2, p101 ISSN  
0899-1502 (Abstract presented at the 27th general meeting of the American Society of Sugar Beet Technologists, Anaheim, CA, USA, 3-6 March 1993)  
Document type: Conference paper, Journal article.(C) CAB International

**Crop growth and weather: can yield forecasts be reliable?**

Scott RKJaggard KW (University of Nottingham, Sutton Bonington, Loughborough,LE12 5RD, UK.)  
Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.  
Document type: Conference paper.(C) CAB International

**Swedish forecasts of sugar beet yields < dash > some regression models.**

Modig SA (Swedish Sugar Company, Agricultural Department, Staffanstorp, Sweden.  
Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.  
Document type: Conference paper.(C) CAB International

**A physiological growth model for forecasting sugar beet yield in Ireland.**

Burke JI (Oak Park Research Centre, Carlow, Ireland.)  
Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.  
Document type: Conference paper.(C) CAB International

**Remote sensing to forecast yield in England.**

Jaggard KW (Broom's Barn Experimental Station, Higham, Bury St. Edmunds,  
Suffolk IP28 6NP, UK.)  
Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.  
Document type: Conference paper.(C) CAB International

**Long-term yield patterns of sugarbeet in Minnesota and eastern North Dakota.**

Campbell LG (USDA-ARS, Northern Crop Science Laboratory, Fargo, ND 58105-5677,USA.)  
Source: Journal of Sugar Beet Research. 1995, 32:1, p9-22 ISSN 0899-1502  
Document type: Journal article.(C) CAB International

**Yield and sugar content in sugar beet.**

Simmonds NW (IERM, University of Edinburgh, Crew Building, West Mains Road,Edinburgh EH9 3JN,  
UK.)  
Source: International Sugar Journal. 1994, 96:1150, p413-417  
ISSN 0020-8841  
Document type: Journal article.(C) CAB International

**Crop yields from reduced tillage systems of corn, edible beans, and sugarbeets.**

Smith JAYonts CD (Dep. Agric. Engineering, Univ. Nebraska, Panhandle Res. And Extension Cent., Scottsbluff, NE, USA.)

Source: Paper, American Society of Agricultural Engineers. 1988:No. 88-2011

Document type: Miscellaneous.(C) CAB International

**Relations between summer climate and quality of sugarbeet.**

Murashima MTomiyama N (Hokkaido Sugar Co. Ltd., Honbetsu 089-32, Japan.)

Source: Proceedings of the Sugar Beet Research Association, Japan. 1986:No. 28,p86-92

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

**Influence of preceding crops on yield and quality of sugarbeets. 1. Survey on sugarbeet crops grown after wheat or potato crops.**

Yoshida TShimono KMiura TOda YSakamoto YKanazuka YKawamura T (Kitami Agric.Exp. Sta., Kunepp 099-14, Japan.)

Source: Proceedings of the Sugar Beet Research Association, Japan. 1986:No. 28, p93-100

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

**Influence of preceding crops on yield and quality of sugarbeets. 2. Yield and quality of sugarbeets grown after wheat or potato crops.**

Kawamura TTakahashi TTakahashi NUchikoshi KYoshida TShimono KMiura T (Hokkaido Farmer's Assoc., Sapporo 060, Japan.)

Source: Proceedings of the Sugar Beet Research Association, Japan. 1986:No. 28, p101-107

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

**Effect of maleic hydrazide on sugar yield of sugarbeet.**

Hayasaka MImura EKanazawa K (Nippon Beet Sugar Manufacturing Co. Ltd., Obihiro 080, Japan.)

Source: Proceedings of the Sugar Beet Research Association, Japan. 1987:No. 29, p77-85

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

**Analyses of factors influencing the yield of sugarbeet. I. Cultivar preference.**

Shimamoto Y (Faculty of Agriculture, Hokkaido University, Sapporo 060, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1988: No. 30, p153-157, ISSN 0912-1048

Document type: Journal article.(C) CAB International

**LANDSAT TM data analysis of relations between sugar rate and root weight of sugarbeets and soil environment.**

Okano CNishimune AFukuhara MHayasaka MOkamoto KShimada N (Faculty of Horticulture, Chiba University, Japan.)

Source: Proceedings of the Japanese Society of Sugar Beet Technologists. 1993: No. 35, p41-51 ISSN 0912-1048

Document type: Journal article.(C) CAB International

**Study on the effects of cultivars and sowing dates on yield, yield components and quality properties of sugarbeet (*Beta vulgaris saccharifera*).**

Akcin AMulayim MY (Tarla Bitkileri Bolumu, Selcuk Universitesi, Konya, Turkey.)  
Source: Doga, Turk Tarim ve Orman Dergisi. 1992, 16:4, p731-743  
Document type: Journal article.(C) CAB International

**Effect of sugarbeet root size on combining ability of sucrose yield components.**

Hecker RJ (USDA Crops Research Laboratory, 1701 Center Avenue, Fort Collins, CO 80526, USA.)  
Source: Journal of Sugar Beet Research. 1991, 28:1-2, p41-48 , ISSN 0899-1502  
Document type: Journal article.(C) CAB International

**Actual sunshine duration and yielding and chemical composition of sugar beet.**

Liniewicz KWojcik S (Department of Agrometeorology, Agricultural University,20-934 Lublin, Poland.)  
Source: Zeszyty Problemowe Postepow Nauk Rolniczych. 1991:No. 396, p101-104 , 7  
Document type: Journal article.(C) CAB International

**Yield potential and utilization possibilities of sugar crops.**

Frese L (Institut fur Pflanzenbau, Bundesforschungsanstalt fur Landwirtschaft Braunschweig-Volkenrode, Braunschweig, Germany.)  
Source: Landbauforschung Volkenrode. 1993, 43:1, p12-16  
Document type: Journal article.(C) CAB International

**Effect of between-row cultivation on yields of sugarbeet under irrigation on light soils.**

Simon J (Vyzkumny Ustav Rostlinne Vyroby, 161 06 Prague-6, Czechoslovakia.)  
Source: Rostlinna Vyroba. 1990, 36:10, p1087-1094  
Document type: Journal article.(C) CAB International

**Seasonal sucrose, dry matter, and cation concentrations of sugarbeet as influenced by variety and N-fertilization.**

Follet RF (USDA-ARS Soil-Plant-Nutrition Research Unit, Fort Collins, CO 80522,USA.)  
Source: Communications in Soil Science and Plant Analysis. 1991, 22:9-10, p893-906 , ISSN 0010-3624  
Document type: Journal article.(C) CAB International

**Crop rotations, Soil aspects, Root growth and Erosion control**

**Reclamation techniques for improvement of sodic soils and crop yield.**

Singh MVSingh KN (Central Soil Salinity Research Institute, Karnal 132001,Haryana, India.)  
Source: Indian Journal of Agricultural Sciences. 1989, 59:8, p495-500 ,  
ISSN 0019-5022  
Document type: Journal article.(C) CAB International

**Investigations into improved soil management and traffic control practices in the sugar beet crop.**

Spoor G Miller SM (Silsoe College, Bedford, UK.)

Source: Investigations into improved soil management and traffic control practices in the sugar beet crop.. 1989, 123 pp. Silsoe College.

Document type: Miscellaneous.(C) CAB International

**Root growth of sugarbeet with particular reference to water relations.**

Windt A Marlander B (Abteilung Physiologie, Institut für Zuckerrubenforschung, 37079 Göttingen, Germany.)

Source: Zuckerindustrie. 1994, 119:8, p659-663 ISSN 0344-8657

Document type: Journal article.(C) CAB International

**Investigations on the root growth of cereals and sugarbeet on different soil types.**

Kucke M Löffler P (Inst. f. Pflanzernahrung u. Bodenkunde, FAL, Bundesallee 50, 3300 Braunschweig, German Federal Republic.)

Source: Mitteilungen der Deutschen Bodenkundlichen Gesellschaft. 1989, 59:2, p741-744 ISSN 0343-107X

Document type: Journal article.(C) CAB International

**Effect of soil compaction on the development of shoots and roots of sugarbeet and its phosphate nutrition.**

Kaselowsky J Classen N Jungk A (Inst.f. Agrikulturchemie, von-Siebold-Str. 6, 3400 Göttingen, German Federal Republic.)

Source: Mitteilungen der Deutschen Bodenkundlichen Gesellschaft. 1989, 59:2, p733-736, ISSN 0343-107X Document type: Journal article.(C) CAB International

**Studies on the influence of soil compaction on soil properties and wheat, maize, sunflower and sugarbeet yields.**

Sin G Ionita S Terbea M Boruga I Nicolae H Bondarev I Draghicioiu V (Institutul de Cercetari pentru Cereale si Plante Tehnice, 8264 Fundulea, Romania.)

Source: Analele Institutului de Cercetari pentru Cereale si Plante Tehnice, Fundulea. 1988, 56, p285-297,

Document type: Journal article.(C) CAB International

**Influence of catch crops on mineral nitrogen leaching and its subsequent plant use.**

Muller J C Denys D Morlet G Mariotti A (Inst. National Recherche Agron., Agron.Sta., Route de Montmirail, Fagnieres 51000 Chalons-sur-Marne, France.)

**Management systems to reduce impact of nitrates.**

Elsevier Applied Science. Barking, UK. ISBN 1-85166-402-5 (Proceedings of a conference held in Brussels, 24-25 September, 1987.)

Document type: Conference paper.(C) CAB International

**Effect of subsoiling on production and physiological characteristics of sugarbeet.**

Kovacova M (Vyskumny a Sl'achtitel'sky Ustav Semennych Okopanin a Priemyselnych Plodin, 912 28 Bucany, Czechoslovakia.)

Source: Rostlinna Vyroba. 1990, 36:10, p1033-1039

Document type: Journal article.(C) CAB International

**Mass of crop residue and its relationship with soil cover for a corn, dry bean, and sugarbeet rotation.**

Smith JAYonts CDRath MDBailie JE (Panhandle Res. and Extension Cent., Univ. Nebraska, Scottsbluff, NE, USA.)

Source: Transactions of the ASAE. 1990, 3:2, p1503-1508, ISSN 0001-2351

Document type: Journal article.(C) CAB International

**The nitrate leaching problem < dash > are catch crops the solution?**

Allison MArmstrong M (Broom's Barn Exp. Sta., UK.)

Source: British Sugar Beet Review. 1991, 59:3, p8-11, ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Control of wind erosion in sugar beet crops.**

Norfolk Agricultural Station, Morley St. Botolph, Wymondham, Norfolk NR18 9DB, UK.)UK, Sugar Beet Research and Education Committee

Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No.2529, 31

Document type: Miscellaneous.(C) CAB International

**Effect of water table and soil type on sugar crops. II- Sugar beet. 2- Plant and leaf yield and some agronomic characters.**

Gaber AAGomaa MAEI-Maghraby SS (Sabhia Research Station, Agriculture Research Centre, Egypt.)

Source: Annals of Agricultural Science, Moshtohor. 1991, 29:1, p119-129

Document type: Journal article.(C) CAB International

**The integration of cover crops into sugar beet (Beta vulgaris) rotations.**

Allison MFArmstrong MJ (IACR, Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: Aspects of Applied Biology. 1992:No. 30, p301-308 ISSN 0265-1491

Document type: Journal article.(C) CAB International

**Sugarbeet yield in relation to preceding crop and rotation.**

Kus J (Zak < 1 > ad Przyrodniczych Podstaw Zmianowania Roslin, IUNG, Pu < 1 >awy, Poland.)

Source: Biuletyn Instytutu Hodowli i Aklimatyzacji Roslin. 1992:No. 181-182, p235-241

Document type: Journal article.(C) CAB International

**Soil cultivation and yield of crops used in multiple cropping systems (maize, sugarbeet and sunflowers).**

Bonari EBonciarelli FArchetti RGaragnani EManzini SMazzoncini MZiliotto U (Universita di Pisa, Pisa, Italy.)

Source: Rivista di Agronomia. 1992, 26:3, p233-240, 3 ref.

ISSN 0035-6034

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

**Effects of sugar beet as a preceding crop on cotton.**

Kalburtsji KLGagianas A (Laboratory of Ecology and Environmental Protection, Faculty of Agriculture, Aristotelian University of Thessaloniki, 540 06 Thessaloniki, Greece.)

Source: Journal of Agronomy and Crop Science. 1997, 178:1, p59-63

ISSN 0931-2250

Document type: Journal article.(C) CAB International

**Crop rotation and its impact on efficiency of water and nitrogen use.**

Pierce FJRice CW (Dep. Crop and Soil Sci., Michigan State Univ., East Lansing, MI 48824, USA.)  
Source: ASA Special Publication, American Society of Agronomy. 1988:No. 51, p21-42  
Document type: Conference paper, Journal article.(C) CAB International

**Performance of sugarcane and sugarbeet intercropping with varying sugarbeet population and nitrogen rates.**

Singh YSingh GR (Dep. Agron., G.B. Pant Univ. Agric. Tech., Pantnagar 263 145, Uttar Pradesh, India.)  
Source: Indian Journal of Agronomy. 1985, 30:4, p445-449ISSN 0537-197X  
Document type: Journal article.(C) CAB International

**Control of wind erosion in sugar beet crops. Report for year ended 31 March 1989.**

UK, Sugar Beet Research and Education Committee  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1989:No. 2375, 22  
Document type: Miscellaneous.(C) CAB International

**Sugarbeet as a crop for salt affected soils of India.**

Bhattacharyya RK (Cent. Soil Salinity Res. Inst., Karnal, India.)  
Source: Indian Sugar Crops Journal. 1986, 12:2, p13-15  
Document type: Journal article.(C) CAB International

**Adjustment, growth, photosynthesis and transpiration of sugar beet plants exposed to saline conditions.**

Plaut, Z and Heuer, B. 1985.  
Source: Field Crops Research, 10, 1-13.  
Document type: Journal article.(C) CAB International

**Grow sugarbeet on sodic soils.**

Garg VG (National Bot. Res. Inst., Lucknow, Uttar Pradesh, India.)  
Source: Indian Farming. 1987, 36:10, p19-21 ISSN 0019-4786  
Document type: Journal article.(C) CAB International

**Timeliness and machine performance benefits from controlled traffic systems in sugar beet.**

Spoor GMiller SMBreay HT (Dep. Agric. Engineering, Silsoe College, Silsoe, Bedford, UK.)  
Source: Tillage and traffic in crop production. Proceedings of the 11th international conference of the International Soil and Tillage Research Organization, Edinburgh, UK, 11-15 July, 1988.. 1988, p317-322 , 1  
Document type: Conference paper.(C) CAB International

**Form and function of the sugar beet fibrous root system; its importance to crop productivity.**

Thomas TH (IACR, Broom's Barn, Higham, Bury St Edmunds, Suffolk IP28 6NP, UK.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15 February 1996.. 1996, p143-151  
Document type: Conference paper.(C) CAB International

**Nutrient uptake by the sugar-beet fibrous root system.**

Allison MFClover GRG (IACR, Broom's Barn, Higham, Bury St Edmunds, Suffolk IP28 6NP, UK.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15  
February 1996.. 1996, p165-174 Document type: Conference paper.(C) CAB International

**Effect of soil temperature and nutrient supply on root growth of sugarbeet.**

Hoffmann CBuhse J (Institut fur Zuckerrubenforschung, Holtenser Landstr. 77,D-30790 Gottingen, Germany.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15  
February 1996.. 1996, p175-185  
Document type: Conference paper.(C) CAB International

**Development of the fibrous root system and its relation to nutrient uptake and growth of sugarbeet.**

Marlander BWindt A (Institut fur Zuckerrubenforschung, Holtenser Landstrasse 77, Postfach 4051, D-37030 Gottingen, Germany.)  
Source: Proceedings of the 59th IIRB Congress, Brussels, Belgium, 13-15  
February 1996.. 1996, p187-198  
Document type: Conference paper.(C) CAB International

**Relationships between photosynthesis and respiration components in sugarbeet during vegetative growth.**

Murei IARakhmankulova ZF (K.A. Timiryazev Institute of Plant Physiology, USSR Academy of Sciences, Moscow, USSR.)  
Source: Fiziologiya Rastenii. 1990, 37:3, p462-467  
Document type: Journal article.(C) CAB International

**Quantitative observation on the root system of various crops growing in the field.**

Yamaguchi JTanaka A (Faculty of Agriculture, Hokkaido University, Sapporo 060,Japan.)  
Source: Soil Science and Plant Nutrition. 1990, 36:3, p483-493 , ISSN 0038-0768  
Document type: Journal article.(C) CAB International

**Effect of nitrogen and phosphorus on yield and quality of sugar beet in saline-sodic soils.**

Khan MAASinghania RAMishra NP (Department of Soil Science, G.B. Pant University of Agriculture and Technology, Pantnagar 263145, Uttar Pradesh, India.)  
Source: Acta Agronomica Hungarica. 1990, 39:3-4, p381-387 ,ISSN 0238-0161  
Document type: Journal article.(C) CAB International

**Bed cultivation - an integrated cultivation system for sugar beets.**

Kromer KHStratz J (Institut fur Landtechnik, Universitat Bonn, Nussallee 5,5300 Bonn, Germany.)  
Source: Landtechnik. 1991, 46:3, p94-96 ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**Analysis of soil nutrient supply, yield and composition of sugarbeet using mathematical statistical methods.**

Bartos AFekete ASarvari B (Agrartudományi Egyetem, Keszthely 8360, Hungary.)  
Source: Novenytermeles. 1990, 39:2, p129-137  
Document type: Journal article.(C) CAB International

### **Fibrous root growth and water use of sugar beet.**

Brown, KF and Biscoe, PV. 1985.  
Source: Journal of Agricultural Science, Cambridge, 105, 679-91.  
Document type: Journal article.(C) CAB International

### **Production aspects**

#### **Technical aspects of reducing production costs.**

Twaite NRWarnes AJN (British Sugar plc, PO Box 26, Peterborough PE2 9QU, UK.)  
Source: Zuckerindustrie. 1989, 114:11, p889-897 ISSN 0344-8657  
Document type: Journal article.(C) CAB International

#### **Efficiency of sugarbeet production in the maize producing region of Czechoslovakia.**

Torok J  
Source: Acta Operativo-Oeconomica. 1989, 44, p143-149 ,  
Document type: Journal article.(C) CAB International

#### **Sugarbeet production in the USSR.**

Barash SIManellya AI (Akademiya Sel'skokhozyaistvennykh Nauk im. V.I. Lenina, Leningrad, USSR.)  
Source: Sbornik Nauchnykh Trudov po Prikladnoi Botanike, Genetike i Selektzii. 1988:No. 120, p105-112  
Document type: Journal article.(C) CAB International

#### **The sugar industry in the GDR.**

Source: Zuckerindustrie. 1990, 115:3, p167-173 ISSN 0344-8657  
Document type: Journal article.(C) CAB International

#### **Forecasts of the effects of innovations on the intensification of sugarbeet production.**

Vybihal V (Vysoka skola zemedelska Zemedelska 5, 613 00 Brno, Czechoslovakia.)  
Source: Zemedelska Ekonomika. 1990, 36:6, p475-484 ,  
Document type: Journal article.(C) CAB International

#### **Sugarbeet in specialized crop rotations and monoculture.**

Wanic M (Katedra Ogolnej Uprawy Roli i Roslin ART, Olsztyn, Poland.)  
Source: Acta Universitatis Agriculturae, Facultas Agronomica. 1987, publ. 1988, 35:3-4, p97-101 , ISSN 0524-7403 Document type: Journal article.(C) CAB International

#### **Whole-farm risks of producing sugarbeets in the Red River Valley.**

Gustafson CR (Department of Agricultural Economics, North Dakota State University, Fargo, North Dakota, USA.)  
Source: North Dakota Farm Research. 1990, 47:5, p18-21 , ISSN 0097-5338  
Document type: Journal article.(C) CAB International



**Production of sugar beet depends on the climatic factors and irrigation effects in Vojvodina.**

Dragovic SPanic AMaksimovic IL (Agric. Fac., Novi Sad, Yugoslavia.)  
Source: Proceedings 15th ICID European Regional Conference.. 1988:No. 2, p35-47,  
Document type: Conference paper.(C) CAB International

**Dependence of sugarbeet production in Jordan on irrigation and nitrogen fertilization.**

Wis DYIbrahim GhawiAl-Amary MAAAl-Tal AMohamed Shutnawy  
Source: Dirasat. 1989, 16:9, p7-24 ,  
Document type: Journal article(C) CAB International

**Characteristics of a sugar beet for growing in a more competitive and economical way in the future.**

Martens M (Institut Royal Belge pour l'Amelioration de la Betterave Tienen,Belgique.)  
Source: International Institute for Sugar Beet Research, 53rd winter congress,Brussels, Belgium, 14-15  
February 1990  
Document type: Conference paper.(C) CAB International

**Economic prospects for sugarbeet production in Belgium. 3. Possible research directions.**

Bublot GTychon P (Universite Catholique de Louvain, Faculte des Sciences  
Agronomiques, Unite d'Economie et de Sociologie Rurales, Place de la Croix du Sud 2, B-1348 Louvain-la-  
Neuve, Belgium.)  
Source: Revue de l'Agriculture. 1990, 43:5, p795-807 , ISSN 0776-2143  
Document type: Journal article.(C) CAB International

**1989 and preliminary 1990 cost of production estimates for sugarbeet and sugarcane operations.**

Clauson ALHoff FL (Commodity Economics Division, Economic Research Service, US Department of  
Agriculture, Washington, D.C., USA.)  
Source: Sugar and Sweetener Situation and Outlook Report. 1990:No. SSRV 15N3, p31-37  
Document type: Journal article.(C) CAB International

**Canadian sugar and HFCS industries and U.S. trade.**

Lord R  
Source: Sugar and Sweetener Situation and Outlook Report. 1990:No. SSRV 15N4, p18-26 ,  
Document type: Journal article.(C) CAB International

**Pilot plant trials for production of sugar from sugar beet in India.**

Jain VKSrivastava R (National Sugar Institute, Kanpur, India.)  
Source: Sharkara. 1987, publ. 1990, 26:1-4, p26-28  
Document type: Journal article.(C) CAB International

**1989 crop sugarbeet and sugarcane production and processing costs.**

Clauson ALLord RHoff FL  
Source: Sugar and Sweetener Situation and Outlook Report. 1991:No. SSRV 16N1, p36-42  
Document type: Journal article.(C) CAB International

**Environmental and economic aspects of integrated sugar beet cropping on an experimental farm.**

Wijnands FG Vercyken P (Research Station for Arable Farming and Field Production of Vegetables, Lelystad, Netherlands.)  
Source: Proceedings of the 52nd winter congress of the International Institute for Sugar Beet Research, Bruxelles, Palais des Congres, 15-16 February 1989. p119-129  
Document type: Conference paper.(C) CAB International

**Costs of production < dash > major field crops, 1989.**

USA, Department of Agriculture, Economic Research Service  
Source: Economic Indicators of the Farm Sector, Costs of Production. 1991:No.ECIFS 9-5, vi + 109pp.  
ISSN 0743-7420  
Document type: Miscellaneous.(C) CAB International

**California's sweetener industries: recent developments and prospects.**

Buzzanell P Lord R (Commodity Economics Division, Economic Research Service, USDA, Washington, D.C., USA.)  
Source: Sugar and Sweetener Situation and Outlook Report. 1991:No. 16N2, p17-28 OQEH)  
Document type: Journal article.(C) CAB International

**1990 and preliminary 1991 cost of production estimates for sugarbeet and sugarcane operations.**

Clauson AL Hoff FL (Commodity Economics Division, Economic Research Service, USDA, Washington, DC, USA.)  
Source: Sugar and Sweeteners Situation and Outlook Report. 1991:No. 16N3, p22-25  
Document type: Journal article.(C) CAB International

**U.S. sugar production costs.**

Earley TC (Abel, Daft & Earley, Alexandra, Virginia, USA.)  
Source: F.O. Lichts International Sugar and Sweetener Report. 1990, 122:2, p17-22  
Document type: Journal article.(C) CAB International

**Sugarbeet productivity model for Clay county Minnesota.**

Burley JB (Dep. of Recreation Resources and Landscape Architecture Colorado State Univ., Fort Collins, CO 80523, USA.)  
Source: Journal of Sugar Beet Research. 1990, 27:3 and 4, p50-57  
ISSN 0899-1502  
Document type: Journal article. (C) CAB International

**1990 crop sugarbeet and sugarcane production and processing costs.**

Clauson AL Lord R Hoff FL  
Source: Sugar and Sweetener Situation and Outlook. 1992:No. SSRV17N1, p42-49  
Document type: Journal article.(C) CAB International

**Troubles in the California sugarbeet industry: drought, disease, and other crops.**

Buzzanell P Lord R (Commodity Economics Division, Economic Research Service, US Department of Agriculture, Washington, D.C., USA.)  
Source: Sugar y Azucar. 1992, 87:4, p29-30 ISSN 0039-4742  
Document type: Journal article.(C) CAB International

**1991 and preliminary 1992 cost of production estimates for sugarbeet and sugarcane operations.**

Clauson ALHoff FL

Source: Sugar and Sweetener Situation and Outlook Report. 1992:No. SSRV 17N3, p19-22 (OQEH)

Document type: Journal article.(C) CAB International

**Computer modelling of the costs of sugarbeet growing.**

Chochola JRadek J

Source: Listy Cukrovarnicke a Reparske. 1992, 108:1, p5-8

Document type: Journal article.(C) CAB International

**The substitution of land and fertilizer in sugar beet production.**

El-Hawary EZHamzah AM (Faculty of Agriculture, University of Cairo, Giza,Egypt.)

Source: Bulletin of Faculty of Agriculture, University of Cairo. 1991, 42:3, p623-640

Document type: Journal article.(C) CAB International

**An analysis of labour consumption and energy consumption by various technologies of producing sugar beets.**

Micha <1> ek RKowalski S (Instytut Mechanizacji i Energetyki Rolnictwa,Akademia Rolnicza im. Hugona Ko <1> <1> ataja w Krakowie, Al Mickiewicza 21, 31-120 Krakow, Poland.)

Source: Zeszyty Naukowe Akademii Rolniczej im. H. Ko <1> <1> ataja w Krakowie, Mechanizacja i Energetyka Rolnictwa. 1991, 9:244, p103-116

Document type: Journal article.(C) CAB International

**Estimation of the operation, consumption of fuel and energy in the process of mechanized harvest of sugar beets.**

Gorzelany J

Source: Zeszyty Naukowe Akademii Rolniczej im. H. Ko <1> <1> ataja w Krakowie, Mechanizacja i Energetyka Rolnictwa. 1991, 9:244, p45-56 ,

Document type: Journal article.(C) CAB International

**Comparisons of the trends in sugar yields in leading beet and cane producing countries.**

Fry JTodd M (Landell Mills Commodities Studies, Oxford OX1 2AF, UK.)

Source: Proceedings of the Annual Congress - South African Sugar Technologists' Association. 1992:No. 66, p229-233 ISSN 0373-0450

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

**1991 crop sugarbeet and sugarcane production and processing costs.**

ALLord RHoff FL (Commodity Economics Division, Economic Research Service, US Department of Agriculture, Washington, D.C., USA.)

Source: Sugar and Sweetener Situation and Outlook Report. 1993:No. SSRV18N1, p16-22

Document type: Journal article.(C) CAB International

**Development of sugarbeet growing in recent years.**

Stengl RKovarik A (CUKRSPOL, Prague, Czech Republic.)

Source: Listy Cukrovarnicke a Reparske. 1993, 109:4, p77-84

Document type: Journal article.(C) CAB International

### **Sugarbeet Production.**

Chochola JKonecny IHamacek V (Sugarbeet Research and Breeding Institute, 294 46 Semcice, Czech Republic.)

Source: Metodiky pro Zavadeni Vysledku Vyzkumu do Zemedelske Praxe. 1992:No. 1,111 pp.

Document type: Miscellaneous.(C) CAB International

### **SAKARA: expert system for the improvement of sugarbeet production.**

Vion JM (Division Agronomique, 62190 Sucrierie de Lillers, France.)

Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.

Document type: Conference paper.(C) CAB International

### **Beet grower cards < dash > the information system that gives the right grower the right advice at the right time.**

Landquist BJepsson R (Swedish Sugar Co., Agricultural Department, Staffanstorp, Sweden.)

Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.

Document type: Conference paper.(C) CAB International

### **BETA, a crop management system for sugarbeet.**

Hakkert DJK (Instituut voor Rationele Suikerproductie, Bergen op Zoom, Netherlands.)

Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.

Document type: Conference paper.(C) CAB International

### **Timely forecasting of national sugar beet production in Europe: the C.E.C. methodology and planned improvements using data from satellites.**

Vossen P (Institute for Remote Sensing Applications, Joint Research Centre of the C.E.C., 21020 Ispra, Italy.)

Source: 55e Congres d'hiver, Bruxelles, Palais des Congres, 12-13 fevrier 1992.

Document type: Conference paper.(C) CAB International

### **The 1992 cost of production and financial condition estimates for sugarbeet and sugarcane operations.**

Clauson ALHoff FL (Commodity Economics Division, Economic Research Service,USDA, Washington, D.C., USA.)

Source: Sugar and Sweetener Situation and Outlook Report. 1993, 18:3, p39-45

Document type: Journal article.(C) CAB International

### **Can sugar beet be green?**

Hopkins S

Source: British Sugar Beet Review. 1992, 60:1, p24-26 ISSN 0007-1854

Document type: Journal article.(C) CAB International

### **Beet sugar production < dash > Future trends.**

Branch MF (British Sugar plc, Peterborough PE2 9QU, UK.)

Source: Zuckerindustrie. 1993, 118:11, p867-871 , 2 ref.Rubenzuckerproduktion ISSN 0344-8657 presented at the 70th anniversary of Prague sugar institute, 8 September 1993,

Document type: Journal article.(C) CAB International

### **Agriculture in the United Kingdom.**

UK, Ministry of Agriculture, Fisheries and Food

Source: Agriculture in the United Kingdom.. 1994, vii + 87pp. HMSO.

London, UK. ISBN 0-11-242956-4

Document type: Annual report.(C) CAB International

### **Development of the BETA decision support system for sugarbeet.**

Dekkers WA (Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Postbus 430, 8200 AK Lelystad, Netherlands.)

Source: Publikatie - Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Lelystad.

1993:No. 70A, p74-77

Document type: Journal article.(C) CAB International

### **California field crops: location and trends in acreage, yields, and production, 1945-1991.**

Johnston WE

Source: Giannini Foundation Information Series. 1994:No. 94-1, i + 71pp.

California. Oakland, California, USA

Document type: Miscellaneous.(C) CAB International

### **Production and consumption of sugar in the world.**

Mantovani GVaccari G (Universita di Ferrara, 44100 Ferrara, Italy.)

Source: Industria Saccarifera Italiana. 1994, 87:3, p83-88

ISSN 0019-7734 presented at a technical meeting of ANTZA (Italian Association of Sugar Technologists) during the 16th sugarbeet machinery show organized by SADAM Zuccherifici at Osimo in Ancona, Italy, 30 Jan. 1994)

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

### **Sugarbeet and sugarcane production and processing costs, 1992 crop.**

Clauson ALord RHoff FAli MSalassi M

Source: Sugar and Sweetener Situation and Outlook Report. 1994, 19:2, p22-32 ERS-NASS. Rockville, USA Document type: Journal article.(C) CAB International

### **The beet sugar industry of Minnesota and North Dakota: current situation and prospects.**

Lord R

Source: Sugar and Sweetener Situation and Outlook Report. 1994, 19:3, p22-47 ERS-NASS. Rockville, Maryland, USA

Document type: Journal article.(C) CAB International

### **EC sugar regime.**

Williamson AP

Source: Proceedings of the Second LMC International Sugar and Sweeteners Conference, Barbican Centre, London, UK, 27-28 October, 1992..

Document type: Conference paper.(C) CAB International

### **Major world crop areas and climatic profiles.**

USDA, Washington, DC 20250-3800, USA.)USA, World Agricultural Outlook Board,USDA  
Source: Agriculture Handbook (Washington). 1994:No. 664, 279 pp.  
ISSN 0065-4612  
Document type: Book.(C) CAB International

### **Production costs and profitability of sugarbeet at differentiated levels of fertilization.**

Kisiel RDomska D (Institute of Agricultural Economics and Organization,  
Agricultural & Technical Academy, Olsztyn, Poland.)  
Source: Acta Academiae Agriculturae ac Technicae Olstenensis, Oeconomica. 1994: No. 30, p45-56 ISSN  
0860-2948 Document type: Journal article.(C) CAB International

### **Introduction to a bio-economic production model for sugar beet growing.**

Smit ABNiejehuis JhvanStruik PCVan Niejenhuis JHStruik PC (ed.)Vredenberg WJ(ed.)Renkema JA  
(ed.)Parlevliet JE (ed.) (Department of Farm Economics,Wageningen Agricultural University, Wageningen,  
Netherlands.)  
Source: Plant production on the threshold of a new century. Proceedings of the International Conference at  
the Occasion of the 75<sup>th</sup> Anniversary of the Wageningen Agricultural University, Wageningen, The  
Netherlands, held June 28 - July 1, 1993.. 1994, p115-122 ISBN 0-7923-2903-1  
Document type: Conference paper, Book chapter.(C) CAB International

### **Sugar and sugar markets.**

Chastel JM (CIRAD-CA, 97487 Saint-Denis Cedex, La Reunion, France.)  
Source: Agriculture et Developpement. 1994:No. 4, p4-11 ISSN 1249-9951  
Document type: Journal article.(C) CAB International

### **Net returns from 12 cropping systems containing sugarbeet and navy bean.**

Christenson DRGallagher RSHarrigan TMBlack JR (Department of Crop and Soil Science, Michigan State  
University East Lansing, MI 48824, USA.)  
Source: Journal of Production Agriculture. 1995, 8:2, p276-281  
ISSN 0890-8524  
Document type: Journal article.(C) CAB International

### **US sugarbeet and sugarcane per-acre costs of production: revisions to 1992, and new 1993 and 1994 crop estimates.**

McElroy RGAli M  
Source: Sugar and Sweetener Situation and Outlook Report. 1995:No. SSSV20N3, p28-34  
Document type: Journal article.(C) CAB International

### **U.S. sugar production in the 1990s.**

Schwartz TK (Beet Sugar Development Foundation, 800 Grant, Suite 500, Denver,CO 80203, USA.)  
Source: Zuckerindustrie. 1995, 120:11, p982-984Die US-Rubenzuckererzeugung i den 90er Jahren. ISSN  
0344-8657  
Document type: Conference paper, Journal article.(C) CAB International

### **Prices of agricultural products and selected inputs in Europe and North America 1993/94.**

United Nations, Economic Commission for Europe; Food and Agriculture Organization

Source: Annual ECE/FAO Price Review. 1995:No. 44, 210 pp.O/No E.95.II.E.21. United Nations. New York, USA. ISSN 0251-3986 (ECE/AGRI/131)

Document type: Annual report.(C) CAB International

### **Technical choices for competitive sugar beet production.**

Ricci A

Source: Mondo Macchina. 1995:No. 2, p54-56

Document type: Journal article.(C) CAB International

### **Growing sugar beet - into the next century.**

Thomas TH (IACR Long Ashton, University of Bristol, Bristol, UK.)

Source: Journal of the Royal Agricultural Society of England. 1996, 157, p92-102 ISSN 0080-4134

Document type: Journal article.(C) CAB International

### **Great Lakes beet sugar industry: recent developments and future prospects.**

Buzzanell P (Commercial Agriculture Division, Economic Research Service, USDA, Washington, D.C., USA.)

Source: Sugar and Sweetener Situation and Outlook Report. 1996, 21:1, p22-38

Document type: Journal article.(C) CAB International

### **Sugarbeet farm characteristics and production costs, 1992.**

Ali MMcElroy R (Rural Economy Division, Economic Research Service, USDA, Washington, D.C., USA.)

Source: Sugar and Sweetener Situation and Outlook Report. 1996, 21:1, p39-44

Document type: Journal article.(C) CAB International

### **1995 sugarbeet production in the United States.**

Source: Sugar Journal. 1996, 58:11, p11-12, 17 ISSN 0039-4734

Document type: Journal article.(C) CAB International

### **History of sugar industry in India.**

Pruthi S

Source: History of sugar industry in India.. 1995, 214 pp.

Reliance Publishing House. New Delhi, India. ISBN 81-85972-96-6

Document type: Miscellaneous.(C) CAB International

### **Costs of producing 1995 sugar crops.**

McElroy R, Ali MB (Rural Economy Division, Economic Research Service, US Department of Agriculture, Washington, D.C., USA.)

Source: Sugar and Sweetener Situation and Outlook Report. 1996, 21:3, p15-20

Document type: Journal article.(C) CAB International

**Costs of sugar beet production - comparison of selected EU-regions.**

Vierling GZeddies J (Institut für Landwirtschaftliche Betriebslehre (410 B), Universität Hohenheim, D-70593 Stuttgart, Schloss Osthof Süd, Germany.)

Source: Zuckerindustrie. 1996, 121:8, p635-639

ISSN 0344-8657

Document type: Journal article.(C) CAB International

**First estimate of world sugar production 1996/97.**

Source: F.O. Licht International Sugar and Sweetener Report. 1996, 128:30, p685-693

Document type: Journal article.(C) CAB International

**The costs of producing sugar in the United States.**

Source: Sugar y Azucar. 1996, 91:12, p22-24 ISSN 0039-4742

Document type: Journal article.(C) CAB International

**Beet sugar production in the United States.**

Source: Sugar y Azucar. 1997, 92:2, p18-19 ISSN 0039-4742

Document type: Journal article.(C) CAB International

**First estimate of European sugar beet areas 1997.**

Source: F.O. Licht International Sugar and Sweetener Report. 1997, 129:10, p213-219

Document type: Journal article.(C) CAB International

**Efficiency in redistribution in the United States sugar industry.**

Elhawary EZ

Source: Dissertation Abstracts International, A (Humanities and Social Sciences). 1988, 49:2, p.306 O/No DA8729938 (Diss., University of California, Davis, 1987, 162pp)

Document type: Journal article.(C) CAB International

**The economics of growing sugar beet in the eastern counties.**

Murphy MC (Dep. Land Economy, Univ. Cambridge, UK.)

Source: British Sugar Beet Review. 1988, 56:1, p15-20 ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Sugar beet: an agricultural innovation.**

Taylor GF

Source: Sugar beet: an agricultural innovation.. 1979 (British Reports, Translations and Theses, 86-12-02D-002.) O/No British Library LD:D69311/86. Hull University, UK (544 < thin > pp. 2 vol.)

Document type: Thesis.(C) CAB International

**The sugarbeet industry in California.**

Hills FJJohnson SSGoodwin BA

Source: Bulletin, Agricultural Experiment Station, University of California. 1986:No. 1916, 8pp.

Document type: Miscellaneous.(C) CAB International



**USA beet production in the 1980's < dash > the response to the challenge in the Red River Valley.**

Scott KPeck W (Broom's Barn Exp. Sta., Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: British Sugar Beet Review. 1987, 55:2, p40-42 ISSN 0007-1854

Document type: Journal article.(C) CAB International

**Comparative study of the efficiency of sugar beet (*Beta vulgaris* L.) and sugar cane (*Saccharum officinarum* L.).**

Obatolu CR (Cocoa Res. Inst., Nigeria.)

Source: Fertilizers and Agriculture. 1986:No.91, p3-9 ISSN 0254-4997

Document type: Journal article.(C) CAB International

**Physical properties of sugar beet.**

Alizadeh H (Agric. Engineering Dep., Univ. of Urmieh, Urmieh, Iran.)

Source: Paper, American Society of Agricultural Engineers. 1985:No. 85-3032,

Document type: Miscellaneous.(C) CAB International

**A note of caution concerning the relationship between cumulated intercepted solar radiation and crop growth.**

Demetriades-Shah THFuchs M Kanemasu ET Flitcroft I (Department of Agronomy, University of Georgia, College of Agriculture, Georgia Station, Griffin, GA30223, USA.)

Source: Agricultural and Forest Meteorology. 1992, 58:3-4, p193-207

ISSN 0168-1923

Document type: Journal article.(C) CAB International

**Transforming sugar-beet research into productivity.**

Thomas TH (Broom's Barn Experimental Station, Higham, Bury St. Edmunds, Suffolk IP28 6NP, UK.)

Source: Annual Bulletin - British Society for Plant Growth Regulation. 1992:No. 2, p20-26

Document type: Journal article.(C) CAB International

**Row crops: an intensification of the North Dakota agricultural industry.**

Johnson RGBangsund DA (Department of Agricultural Economics, North Dakota State University of Agriculture and Applied Science, Fargo, North Dakota 58105, USA.)

Source: North Dakota Farm Research. 1989, 46:6, p3-6 ISSN 0097-5338 (2

Document type: Journal article.(C) CAB International

**Effects of soil solarization on sugarbeet productivity in Michigan.**

Halloin JM (Sugarbeet, Bean and Cereal Research Unit, USDA-ARS, Department of Botany and Plant Pathology, Michigan State University, East Lansing, MI 48824, USA.)

Source: Journal of Sugar Beet Research. 1994, 30:3, p151-158, 10 ref.

ISSN 0899-1502

Document type: Journal article.(C) CAB International

## **Stockfeed aspects**

### **The effect of dry feed additives on the nutritive value of silage.**

Moseley GRamanathan V (Institute of Grassland and Animal Production, Welsh Plant Breeding Station, Aberystwyth, Dyfed SY23 3EB, UK.)

Source: Grass and Forage Science. 1989, 44:4, p391-397 ,ISSN 0142-5242

Document type: Journal article.(C) CAB International

### **Utilization of sugar beet molasses and monensin for finishing dairy bullocks.**

Garrett JEGuessous FEdebbbarh A (Department of Animal Science, 120 Peters Hall,University of Minnesota, St. Paul, MN 55108, USA.)

Source: Animal Feed Science and Technology. 1989, 25:1-2, p11-21. ISSN 0377-8401

Document type: Journal article.(C) CAB International

### **Beet pulp in beef cattle nutrition.**

Darwish AHassouna MMERammah AMEI-Gawad MASA (Animal Production Department, Faculty of Agriculture, Cairo University, Fayoum, Egypt.)

Source: Proceedings of the third Egyptian British conference on animals, fish, and poultry production, 7-10 October 1989, Alexandria, Egypt.. 1989, p209-214 ,

Document type: Conference paper.(C) CAB International

### **Sugarbeet pulp production and its feeding potential for lactating cows.**

Bahir Qureshi MSiddiqui MMQureshi MB (Livestock Research and Development,N.W.F.P., Surezai, Pakistan.)

Source: Sarhad Journal of Agriculture. 1989, 5:4, p351-357 , ISSN 1016-4383

Document type: Journal article.(C) CAB International

### **Effects of replacing maize silage with sugarbeet top silage in rations on feed intake and liveweight gain of fattening bulls.**

Boldt EHoffmann MDanicke O (Sektion Tierproduktion und Veterinarmedizin, Wissenschaftsbereich Tierfütterung und Ernährungsschaden,

Karl-Marx-Universität, Leipzig, German Democratic Republic.)

Source: Tierzucht. 1990, 44:2, p58-60 ISSN 0373-1677

Document type: Journal article. (C) CAB International

### **Comments and recommendations for ensiling beet for feeding.**

Nonn HKluge H (Sektion Pflanzenproduktion, Martin-Luther-Universität

Halle-Wittenberg, Wissenschaftsbereich Pflanzenbau - Futtermittelkunde und Tierernährung, German Democratic Republic.)

Source: Tierzucht. 1990, 44:5, p210-213. ISSN 0373-1677

Document type: Journal article.(C) CAB International

### **Dried beet pulp, pressed beet pulp and maize silage as substitutes for concentrates in dairy cow rations. 1. Feeding value, feed intake, milk production and milk composition.**

Visser HdeHindle VADe Visser H (Research Institute for Livestock Feeding and Nutrition (IVVO), PO Box 160, 8200 AD Lelystad, Netherlands.)

Source: Netherlands Journal of Agricultural Science. 1990, 38:1, p77-88 26 ISSN 0028-2928

Document type: Journal article.(C) CAB International

### **Preservation of sugar-beet tops through ensiling.**

Groda BZufanek J (Vysoka Skola Zemedelska v Brne, Zemedelska 1, 613 00 Brno,Czechoslovakia.)  
Source: Acta Universitatis Agriculturae, Facultas Agroeconomica. 1988, 24:1-2, p99-108 , 12 ref. ISSN 0524-7446 Document type: Journal article.(C) CAB International

### **Sugar beet molasses in rations for lactating cows.**

Jahn B, EBarahona L, SOLave R, EBonilla E, WPulido F, R (Estacion Experimental Quilamapu (INIA), Casilla 426, Chillan, Chile.)  
Source: Agricultura Tecnica (Santiago). 1989, 49:3, p242-247  
Document type: Journal article (C) CAB International

### **Sugar beet silage pushes up margins.**

[Trident Feeds]  
Source: Farming News (London). 1991:March 22, p20 ISSN 0265-1645  
Document type: Journal article.(C) CAB International

### **The real value of sugar beet feed.**

Crawshaw R (ADAS, Cambridge, UK.)  
Source: British Sugar Beet Review. 1990, 58:3, p42-44. ISSN 0007-1854  
Document type: Journal article.(C) CAB International

### **Some practical aspects of sugar beet tops silage.**

Pimlott A (Ipswich Factory, British Sugar plc, Ipswich, Suffolk IP1 < thin 5AL, UK.)  
Source: British Sugar Beet Review. 1991, 59:3, p36-38 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

### **Feeding of sugar beet (*Beta vulgaris* L.) for milk production.**

Verma AKNaik DG (Department of Animal Science, College of Agriculture, G.B.Pant University of Agriculture and Technology, Pantnagar 263 145, India.)  
Source: Journal of Applied Animal Research. 1994, 6:1, p37-42  
ISSN 0971-2119  
Document type: Journal article.(C) CAB International

### **Feeding sugar beet tops.**

Nuttall M (Norfolk Agric. Sta., Morley St. Botolph, Wymondham, Norfolk NR18 9DB, UK.)  
Source: British Sugar Beet Review. 1985, 53:3, p4-5 ISSN 0007-1854  
Document type: Journal article.(C) CAB International

## **Models, General reports and Miscellaneous**

### **Crop models and decision support systems for yield forecasting and management of the sugar beet crop.**

Vandendriessche HJIttersum MKvanVan Ittersum MK (Soil Service of Belgium, W. de Croylaan 48, 3001 Leuven, Belgium.)

Source: European Journal of Agronomy. 1995, 4:3, p269-279 ISSN 1161-0301

Document type: Journal article.(C) CAB International

### **Use of a nitrate leaching model to predict spring soil mineral nitrogen contents in sugar beet (*Beta vulgaris*) fields.**

Allison MFPcock TOArmstrong MJ (Broom's Barn Experimental Station, Higham, Bury St. Edmonds, Suffolk IP28 6NP, UK.)

Source: Aspects of Applied Biology. 1992:No. 30, p445-450 ISSN 0265-1491 (Nitrate and Farming Systems)

Document type: Journal article.(C) CAB International

### **SBFLEVO and WWFLEVO: growth models to simulate crop growth, optical reflectance and radar backscatter of sugar beet and winter wheat, calibrated for Flevoland.**

Bouman BAM (DLO Centre for Agrobiological Research, 6700 AA Wageningen, Netherlands.)

Source: Report - Centre for Agrobiological Research. 1992:No. 163, 62 + iii + xxv + iii + xii Centre for Agrobiological Research. Wageningen, Netherlands

Document type: Miscellaneous.(C) CAB International

### **SBFLEVO-OPT: A program to calibrate the crop growth model SBFLEVO for sugarbeet in Flevoland on optical reflectance and/or radar backscatter data.**

Bouman BAM (DLO Centre for Agrobiological Research, 6700 AA Wageningen, Netherlands.)

Source: Report-Centre for Agrobiological Research. 1992:No.164, 31 Centre for Agrobiological Research. Wageningen, Netherlands

Document type: Miscellaneous.(C) CAB International

### **The role of leaves in the perception of vernalizing temperatures in sugarbeet.**

Crosthwaite SKJenkins GI (Department of Biochemistry, University of Glasgow, Glasgow G12 8QQ, UK.)

Source: Journal of Experimental Botany. 1993, 44:261, p801-806

ISSN 0022-0957

Document type: Journal article.(C) CAB International

### **Linking physical remote sensing models with crop growth simulation models, applied for sugar beet.**

Bouman BAM (Centre for Agrobiological Research, 6700 AA Wageningen, Netherlands.)

Source: International Journal of Remote Sensing. 1992, 13:14, p2565-2581

ISSN 0143-1161

Document type: Journal article.(C) CAB International

**A simple model to describe variation between years in the early growth of sugar beet.**

Day W (Rothamsted Exp. Sta., Harpenden, Herts AL5 2JQ, UK.)  
Source: Field Crops Research. 1986, 14:3, p213-220 ISSN 0378-4290  
Document type: Journal article.(C) CAB International

**Description of decision-support systems BETA, CERA and KOBAS.**

Dekkers WAGrunefeld A (Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Edelhertweg 1, Postbus 430, 8200 AK Lelystad, Netherlands.)  
Source: Verslag - Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond. 1994:No. 175, 137 pp.  
Document type: Miscellaneous.(C) CAB International

**CERCOPRI: a forecasting model for primary infections of Cercospora leaf spot of sugarbeet.**

Rossi VBattilani P (Istituto di Patologia Vegetale e Forestale, Universita della Basilicata, Via Nazario Sauro 85, 85100 Potenza, Italy.)  
Source: Bulletin OEPP. 1991, 21:3, p527-531 , ISSN 0250-8052  
Document type: Conference paper, Journal article.(C) CAB International

**Visualizing differences in plant water dynamics with a simulation model.**

Fernandez CJMcCree KJ (Department of Soil and Crop Sciences, Texas A & M University, College Station, TX 77843, USA.)  
Source: Crop Science. 1991, 31:2, p399-404 , ISSN 0011-183X  
Document type: Journal article.(C) CAB International

**Row-column designs for sugar beet variety trials.**

Seeger P (Department of Statistics, Swedish University of Agricultural Sciences, PO Box 7013, 750 07 Uppsala, Sweden.)  
Source: Swedish Journal of Agricultural Research. 1994, 24:1, p45-48  
ISSN 0049-2701  
Document type: Journal article.(C) CAB International

**Physiology of growth of the sugar beet crop. Report for year ended 31 March 1989.**

UK, Sugar Beet Research and Education Committee  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1989:No. 2370, 20  
Document type: Miscellaneous.(C) CAB International

**Crop husbandry experiments. Report for year ended 31 March 1989.**

UK Sugar Beet Research and Education Committee  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1989:No. 2369, 88  
Document type: Annual report.(C) CAB International

**BETA < dash > a decision support system for the cropping of sugar beets, approach and first experiences.**

Jong PCdeDe Jong PCKuhlmann F (ed.) (SIVAK (Branch Organization for Automation in Arable Farming), Lelystad, Netherlands.)

Source: Proceedings of the 3rd international congress for computer technology. Integrated decision support systems in agriculture < dash > successful practical applications, Frankfurt a.MBad Soden, May 27-30, 1990

Document type: Conference paper.(C) CAB International

**Agronomic research activities on sugarbeet in the last decade.**

Er CInan H (Ankara Universitesi, Tandogan Meydani, Ankara, Turkey.)

Source: Seker. 1987, 20:120, p1-26

Document type: Journal article.(C) CAB International

**Report, Broom's Barn Experimental Station.**

Cooke DAUK, AFRC Institute of Arable Crops Research

Source: Report, Broom's Barn Experimental Station.. 1988, p202-207, 148-157 , AFRC Institute of Arable Crops Research. Harpenden, UK

Document type: Annual report.(C) CAB International

**Beta Fibre < dash > a positive route to lower cholesterol.**

Harland JI (British Sugar, UK.)

Source: Conference Proceedings - Food Ingredients Europe.. 1989, p204-205 , 17]. Expoconsult Maarssen, Netherlands

Document type: Conference paper.(C) CAB International

**Broom's Barn Report for 1995.**

UK, Institute of Arable Crops Research, Broom's Barn

Source: Broom's Barn Report for 1995.. 1995, 32 pp

Document type: Annual report(C) CAB International

**53rd Winter Congress, International Institute for Sugarbeet Research.**

Source: International Institute for Sugarbeet Research.

Document type: Conference proceedings.(C) CAB International

**56th winter conference of the International Institute for Sugarbeet Research,Palais des Congres, Brussels, Belgium, 10-11 February 1993.**

(IIRB, rue Montoyer 47, B-1040 Bruxelles, Belgium.)Belgium, Institut International de Recherches Betteravieres

Source:56th winter conference of the International Institute for Sugarbeet Research, Palais des Congres, Brussels, Belgium, 10-11 February 1993.] 1800 FB.

Document type: Conference proceedings.(C) CAB International

**57th Winter congress, International Institute for sugarbeet research, Palais des Congres, Brussels, 16-17 Feb. 1994.**

Institut International de Recherches Betteravieres (IIRB)

Source: International Institute for sugarbeet research, Palais des Congres, Brussels, 16-17 Feb. 1994.

Document type: Conference proceedings.(C) CAB International

**Determination of optimum size and shape of experimental plots for sugarbeet (*Beta vulgaris*).**

Sethi ASKapur MLKanwar RS (Sugarcane Res. Sta., Punjab Agric. Univ., Jalandhar 144001, India.)  
Source: Indian Journal of Agricultural Sciences. 1989, 59:1, p36-41  
ISSN 0019-5022  
Document type: Journal article.(C) CAB International

**Light interception and yield as influenced by leaf area index of sugarbeet.**

Rover A (Institut fur Zuckerrubenforschung, 37079 Gottingen, Germany.)  
Source: Zuckerindustrie. 1994, 119:8, p664-670 ,ISSN 0344-8657  
Document type: Journal article.(C) CAB International

**Indirect determination of leaf area index of sugar beet canopies in comparison to direct measurement.**

Rover AKoch HJ (Institut fur Zuckerrubenforschung, Holtenser Landstrasse 77,D-37079 Gottingen, Germany.)  
Source: Journal of Agronomy and Crop Science. 1995, 174:3, p189-195 ,  
ISSN 0931-2250  
Document type: Journal article.(C) CAB International

**Monitoring leaf area of sugar beet using ERS-1 SAR data.**

Xu HSteven MDJaggard KW (Department of Geography, University of Nottingham, Nottingham NG7 2RD, UK.)  
Source: International Journal of Remote Sensing. 1996, 17:17, p3401-3410 ISSN 0143-1161  
Document type: Journal article.(C) CAB International

**Sugar beet: a grower's guide.**

Jaggard KW (ed.) (Brooms Barn Exp. Sta., Higham, Bury St. Edmunds, Suffolk,IP28 6NP, UK.)  
Source: Sugar beet: a grower's guide.. 1989:Ed. 4, 95 pp. Sugar Beet  
Research and Education Committee. London, UK  
Document type: Book (C) CAB International

**Eighty-eighth Annual Report, 1995-1996.**

UK, Morley Research Centre  
Source: Eighty-eighth Annual Report, 1995-1996.. 1996, 153 pp.  
Morley Research Centre. Wymondham, UK  
Document type: Annual report.(C) CAB International

**An agrometeorological method of forecasting the yield of sugarbeet.**

Spoz-Pac W (Zak <1> ad Agrometeorologii, IUNG, Pu <1> awy, Poland.)  
Source: Zeszyty Naukowe Akademii Rolniczej im Hugona Ko <1> <1> ataja w Krakowie, Sesja Naukowa. 1991:No. 27, p205-216  
Document type: Journal article.(C) CAB International

**Beta Fibre: a case history.**

Harland JI (British Sugar PLC, PO Box 26, Oundle Road, Peterborough, PE2 9QU,UK.)  
Source: International Journal of Food Sciences and Nutrition. 1993, 44:SUPP 1, pS87-S96  
Document type: Conference paper, Journal article.(C) CAB International

**Technology around the sugar beet.**

Bertram HH (Deutsche Landwirtschafts-Gesellschaft, Eschborner Landstrasse 122, 60489 Frankfurt/Main, Germany.)  
Source: Landtechnik. 1993, 48:11, p562,608-610 ISSN 0023-8082  
Document type: Journal article.(C) CAB International

**The sugar beet crop: science into practice.**

Cooke DA (ed.)Scott RK (ed.) (Broom's Barn Experimental Station, Higham, BurySt Edmunds, Suffolk IP28 6NP, UK.)  
Source: The sugar beet crop: science into practice.. 1993, xix + 675 pp. Chapman and Hall. London, UK. ISBN 0-412-25130-2  
Document type: Book.(C) CAB International

**Crop husbandry experiments. Report for year ended 31st March 1991.**

Morley Research Centre, Wymondham, Norfolk NR18 9DB, UK.)UK, Sugar Beet Research and Education Committee  
Source: Committee Paper - Sugar Beet Research and Education Committee. 1991:No. 2524, 142 pp.  
Document type: Annual report.(C) CAB International

**Eighty-third Annual Report, 1990-1991.**

Morley Research Centre  
Source: Eighty-third Annual Report, 1990-1991  
Document type: Annual report.(C) CAB International

**Eighty-fourth annual report, 1991-1992.**

Morley Research Centre, Wymondham, Norfolk NR18 9DB, UK.)UK, Morley Research Centre  
Source: Eighty-fourth annual report, 1991-1992.. 1992, 180 pp.  
Document type: Annual report.(C) CAB International

**Eighty-fifth Annual Report, 1992-1993.**

Morley Research Centre, Wymondham, Norfolk NR18 9DB, UK.)UK, Morley Research Centre  
Source: Eighty-fifth Annual Report, 1992-1993.. 1993, 176 pp. [English]. Morley Research Centre. Wymondham, UK  
Document type: Annual report.(C) CAB International

**55th winter congress, Brussels, Palais des Congres, 12-13 February 1992.**

International Institute for Sugar Beet Research  
Source:55th winter congress, Brussels, Palais des Congres, 12-13 February 1992. Document type: Conference proceedings.(C) CAB International



### **Progress report of the International Database for Beta (IDBB).**

Frese L (CPRO-DLO Centre for Genetic Resources, 6700 AA Wageningen, Netherlands.)

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

### **Characteristics of sugarbeet fiber allow many food uses.**

Christensen EH (American Crystal Sugar Company, Specialty Products Division, Moorhead, MN 56560, USA.)

Source: Cereal Foods World. 1989, 34:7, p541-542, 544 , ISSN 0146-6283

Document type: Journal article.(C) CAB International

### **Sugarbeet.**

Hills FJWinter SRHenderson DW (Department of Agronomy and Range Science, University of California, Davis, CA 95616, USA.)

Source: Agronomy. 1990:No. 30, p795-810 , ISBN 0-89118-102-4

ISSN 0065-4663 (In Irrigation of agricultural crops, edited by B.A. Stewart and D.R. Nielsen)

Document type: Journal article.(C) CAB International

### **UK, Sugar Beet Research and Education Committee**

Source: Committee Paper - Sugar Beet Research and Education Committee. 1989:No. 2373, 42 pp.

Document type: Annual report.(C) CAB International

### **China baffles the world market.**

Source: F.O. Lichts International Sugar and Sweetener Report. 1990, 122:27, p455-460 (CBHPC)

Document type: Journal article.(C) CAB International

### **A weather-based yield-forecasting model for sugar beet.**

Spitters CJTKiewiet BSchiphouwer T (Centre for Plant Breeding Institute (CPO),6700 AA Wageningen, Netherlands.)

Source: Netherlands Journal of Agricultural Science. 1990, 38:4, p731-735 , ISSN 0028-2928

Document type: Journal article.(C) CAB International

### **The world Beta network cooperation.**

Frese L (Centre for Genetic Resources, Wageningen, Netherlands.)

Source: International Institute for Sugar Beet Research, 53rd winter congress, Brussels, Belgium, 14-15 February 1990. p161-171

Document type: Conference paper.(C) CAB International

## **ATTACHMENT 1**

# **World sugar beet research establishments**

### **1. Herrn M. Haluschan**

Zuckerforschung Tulln GmbH.,  
Landwirtschaft  
Reitherstrasse 21-23, A-3430 Tullin  
Austria.

### **2. M. Jean-Francois Misonne**

Director  
Institut Royal Belge pour l'Amelioration de la Betterave  
Molenstraat, 45, B-3300 Tienen  
Belgium.

### **3. Mr J. Stroller**

University of Agriculture  
Crop Production Department  
CZ-165 21 Praha 6  
Czech Republic.

### **4. Mr J. N. Thomsen**

Head of Research  
Research Foundation of Sugar Beet  
Research Station Alstedgaard,  
Alstedvej 52, DK-4173 Fjenneslev  
Denmark.

### **5. Prof. K.K Raininko**

Sugar Beet Reseach Centre  
Sucros Ltd  
Korvenkyldntie 201  
FIN-25170 Kotalato  
Finland.

### **6. M.E Choppin de Janvry**

Directeur Giniral  
I.T.B -45 rue de Naples  
F-75008 Paris  
France.

**7. M. J-F Morin**

Directeur  
Commission Interdepartmentale Betteravie du  
Nord et du Pas-de-Calais  
68 rue Alexandre Descatoire  
B.P 654, F-59506 Douai Cedex  
France

**8. Dr B Mdrldnder**

Institut f/r Zucker/benforschung  
Holtenser Landstrasse 77  
Postfach 40 51, D-37030  
Gvttingen  
Germany.

**9. Dr M.J Armstrong**

Head of Agriculture R & D  
Sugar for Industry, British Sugar plc  
Holmewood Hall  
Holme  
GB-Peterbrough PE7 3PG  
Great Britain.

**10. Dr J.D Pidgeon**

Director  
IACR-Broom's Barn  
Higham  
Bury St Edmunds  
GB-Suffolk IP28 6NP  
Great Britain.

**11. Mr N Maslaris**

Head of Agricultural Research Service  
Hellenic Sugar Industry S.A.,  
Sugar Beet Research Station  
Sindos, GR-57400 Thessaloniki  
Greece.

**12. Mr B Rice**

Head of Ag. Eng. Dept.,  
Teagasc Oakpark Research Centre  
IRL-Carlow Ireland.

**13. Dr F Rosso**

S.r.l Consortile  
Via Romolo Gessi,  
20, 1-48100 Ravenna  
Italy.

**14. Prof. A. Kornienko**

Director, All-Russian Research Institute  
of Sugar Beet and sugar selection.  
VNISS, Ramon  
Voronezh Region  
Russia-396030

**15. Dr J.L Villarias Moradillo**

Universiti de Leon  
Carretera Circunvalacioq S/n.,  
E-24071 LEON  
Spain.

**16. Mr C. Sperlingsson**

Head of Agricultural Dept.  
Danisco Sugar AB  
S-205 04 Malmv  
Sweden.

**17. Herrn W. Herrenschwand**

Schweizerische Fachstelle f/r  
Zuckerr/benbau  
CH-3270 Aarberg  
Switzerland.

**18. Dr F.G.J Tijink**

Director-IRS  
Instituut voor Rationele Suikerproduktie  
Postbus 32  
NL-4600 AA Bergen op Zoom  
The Netherlands.

**19. Dr H Sevilmis**

Director of Agricultural Research  
Sugar Institute  
TR-06790 Etimesgut-Ankara  
Turkey.

**20. Dr Robert T. Lewellen**

Research Geneticist  
Sugar beet Production Research  
1636 E. Alisal St.  
Salinas, California. 93905  
USA

**21. Garry A. Smith**

Northern Crop Science Laboratory  
Sugar beet and Potato Research  
1307 North 18 St.  
Fargo, North Dakota. 58105  
USA

**22. Dr Lee Panella**

Sugar beet Research Unit  
Crops Research laboratory  
1701 Centre Avenue  
Fort Collins, Colorado. 80526

**23. John M. Halloin**

Sugar beet, Bean and Cereal Research Laboratory  
Department of Crop and Soil Science  
494 Plant and Soil Science Building  
Michigan State University  
East Lansing, Michigan. 48824-1325.

**24. Dr John Gallian**

University of Idaho  
Twin Falls Research and Extension Centre  
PO Box 1827  
Twin Falls, Idaho. 83303-1827.

**25. Dr Stephen Kaffka**

Department of Agronomy and Range Science  
University of California  
Davis, California. 95616-8515.

**26. Dr Eric Kerr**

University of Nebraska-Lincoln  
Institute of Agriculture and Natural Resources  
Panhandle Research and Extension Centre  
4502 Ave 1  
Scottsbluff, Nebraska. 69361.

**27. Dr Charlie Rush**

Texas Agriculture Experimental Station  
PO Box Drawer 10  
Bushland, Texas. 79012.

**28. SY Sadeghlan**

Director, Sugar Beet Seed Institute  
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 11<sup>th</sup>  
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



## **Acknowledgements**

I would like to thank Mr Terry Morgan of CSR Ltd, Kalamia Estate for his input into the preparation of this document.

I would like to also thank the two funding organizations for this project - Rural Industries Research and Development Corporation (RIRDC) and NQ Co - Op Ltd.