

# RESEARCH PROJECT REPORTS

## FRESH VEGETABLE PRODUCT GROUP

MK.0001

Clubroot of Vegetable Brassicas: A Review

HM Nott et al, Crop & Food

December 1994

MK.0002

Black Rot of Kumara: A Position Paper

PG Broadhurst, Crop & Food

April 1995

MK.0003

Black Rot and Sweet Potato Weevil of Kumara

NA Martin et al, Crop & Food

April 1995

MK.0004

Development of NonDestructive Firmness Tester for Measurement of Buttercup Squash Maturity

W Harvey et al, Crop & Food

July 1995

MK.0005

Control of Ringspot on Brassicas (Article)

P Broadhurst, Crop & Food

July 1995

MK.0006

Sclerotinia – What a lot of Rot (Article)

ER Slade et al, HortResearch

September 1995

MK.0007

An Evaluation of Fungicides for Control of Lettuce Ringspot  
PG Broadhurst, Crop & Food and RJ Wood, Vegcon Services Ltd  
November 1995

MK.0008  
Control of Clubroot in Vegetable Brassicas  
HM Nott et al, Crop & Food  
November 1995

MK.0009  
The relationship of antioxidants & dietary fibre in New Zealand vegetables and  
their effect on human health  
I Riddell et al, University of Otago  
November 1995

MK.0010  
Postharvest handling of fresh carrots for Asia  
DW Brash et al, Crop & Food  
January 1996

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Onion Soft Rot (Article)  
KG Tate, Crop Health Services  
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Kumara Scurf & its Control (Article)  
KG Tate, Crop Health Services  
August 1996

MK.0013  
A New Approach to Identifying La France Disease  
JW Marshall, Crop & Food  
May 1996

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Cucurbit Mildew and Control Strategies (Article)

KG Tate, Crop Health Services  
October 1996

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Black Rot in Brassicas (Article)  
KG Tate, Crop Health Services  
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E Nederhoff, HortResearch  
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Plant Health of greenhouse capsicum  
E Nederhoff, HortResearch  
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Control of Clubroot of Vegetable Brassicas  
RE Falloon et al, Crop & Food  
January 1997

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Improved Post Harvest Handling of Carrots for export  
DW Brash et al, Crop & Food  
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Assessment of Insecticide Resistance in Diamond Back Moth  
PJ Cameron et al, Crop & Food  
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Management Strategies for Fusarium and Verticillium Wilts (Article)  
KG Tate, Crop & Food  
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Evaluation of soil fumigants (metum sodium & calcium cyanamide for control of Violet Root Rot of Carrots

LH Cheah et al, Crop & Food

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Adjuvant Technology for Greenhouse Growers – Interim

A Carpenter et al, Crop & Food

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Effect of nutrient solution conductivity on the productivity of NFT produced lettuce

Fisher et al, Massey University

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Pythium root rot disease in NZ – a dissertation for B.Sc (Hons)

G Milne, Massey University

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Effects of different fungicide application strategies on the control of onion white rot in Pukekohe

RA Fullerton et al, HortResearch

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Introduction of white butterfly parasite to Gisborne

Gisborne Produce Growers Assn

June 1998

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New Ecologically based control strategies for Diamond back moth in Brassicas

Dr M Suckling et al, HortResearch

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Improving yields, tuber shape and storability of kumara  
S Lewthwaite, Crop & Food  
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Pesticide Adjuvants for greenhouse growers  
A Carpenter et al, Crop & Food  
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JW Marshall et al, Crop & Food Research  
June 1998

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Health Benefits of New Zealand Vegetables  
C Lister & F Podwinsky, Crop & Food Research  
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Clubroot Control in vegetable Brassicas using soil incorporation of fungicides  
LH Cheah et al, Crop & Food  
May 1998

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Recent advances in vegetable virus research: Report on ISHS 9th conference of  
the vegetable virus working party  
J Fletcher, Crop & Food Research  
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Strategies to detect & manage powdery and downy mildew of cucurbits  
Greg Tate, Crop Health Services  
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Improving the competitive advantage of New Zealand garlic  
JE Lancaster, Crop & Food Research  
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Clubroot Control with "safe" chemicals  
HM Noh et al, Crop & Food  
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Onion White Rot Project: Report on Year 1  
A Stewart & L Harper, Lincoln University  
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Soil Incorporation of fungicides for control of violet root rot of carrots  
LH Cheah et al, Crop & Food  
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Current Status of Onion White Rot in New Zealand and future management strategies (Article)  
A Stewart, Lincoln University & R Fullerton, HortResearch  
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Visits to Horticulture International, the 7th International Congress of Plant Pathology, and the Swiss Federal Institute of Technology  
RE Falloon, Crop & Food  
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Survey of Downy Mildew of Lettuce  
LH Cheah, Crop & Food  
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The principles of an integrated framework for sustainable vegetable production

PH Williams et al, Crop & Food

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Biological Control of Sclerotinia spp

Dr Alison Stewart, Lincoln University

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MAF Vegetable fertiliser trials – a reappraisal using a new model

A Pearson et al, Crop & Food

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Strategic Application of fungicides for the control of onion white rot

RA Fullerton, HortResearch

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Sweet potato Fertiliser Trials – Dargaville

SC Lewthwaite, Crop & Food

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Sweet potato Herbicide Trial – Dargaville

SC Lewthwaite, Crop & Food

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Investigation into the causes of brown centre in sweet potato

SL Lewthwaite et al, Crop & Food

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Maintaining links with Australian vegetable researchers

LH Cheah, Crop & Food

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Benchmark Irrigation Operating Costs & Sustainable Irrigation Indicators

A Barber, Agriculture NZ

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Ways to improve the effectiveness of heating & carbon dioxide enrichment in the greenhouse

Katrina Buxton et al, Massey University

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Transfer of postharvest technology for fresh vegetables to exemplar growers

B Bycroft et al, Crop & Food

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'What's new in greenhouse land' Travel Report to The Netherlands & Israel

Elly Nederhoff, Galileo Services Ltd

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Biological Control of Sclerotinia spp.

Alison Stewart, Lincoln University

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Root Rot Control in hydroponic vegetable crops using hydrogen peroxide

Elly Nederhoff, Galileo Services Ltd

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Immigration by onion thrips into Brassica and lettuce fields  
AR Watkins et al, HortResearch  
July 2000

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Simulated seafreight of capsicums to Japan  
J Heyes et al, Crop & Food  
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Diamondback moth pheromone trapping & scouting  
GP Walker et al, Crop & Food  
September 2001

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Onion thrips on lettuce – Monitoring infestations & investigating prospects for control  
NA Martin & P Workman, Crop & Food  
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Insecticides and host plants for New Zealand Yam (*Oxalis tuberosa*)  
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Assessment of seed tuber treatments of New Zealand Yam  
CW van Epenhuijsen, G Parmenter & JP Koolaard, Crop & Food  
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Cucurbitacins in bitter zucchini  
JA Heyes, Crop & Food  
April 2002

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Comprehensive pest list for New Zealand yam (Oca) (*Oxalis tuberosa*)

A Carpenter et al, Crop & Food  
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Fumigation of kumara with aerosol formulations of synthetic and natural  
pyrethroids for control of tropical army work and opogona  
C W van Epenhuijsen et al, Crop & Food  
August 2002

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Biological Control of Botrytis diseases of vegetables  
Prof. Alison Stewart & Stuart Card, Lincoln University  
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IPM for lettuce - Report to 30 June 2003  
G Walker et al, Crop & Food  
June 2003

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Bitterness & cucurbitacin levels in NZ grown zucchini cultivars  
W J Harvey & K S Sutton, Crop & Food  
May 2003

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Optimising fertiliser for profitable carrot production  
Andrea Pearson & Jeff Reid, Crop & Food

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Biennial Meeting of the National Vegetable Pathology Working Group, Adelaide  
R E Falloon, Crop & Food

MK.0071  
Pesticide residues in hydroponic systems for growing capsicums  
H Krishna & R Lill, Crop & Food

MK.0072

Opogona and tropical armyworm control in kumara stores  
C W van Epenhuijsen et al, Crop & Food

MK.0073

Control of Phytophthora root rot in spinach  
LH Cheah et al, Crop & Food

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Paraquat resistance in black nightshade  
S L Lewthwaite & J J L Scheffe,r Crop & Food, C M Triggs, University of Auckland

MK.0075

Ethyl formate for the control of opogona moths  
B B C Page & C W van Epenhuijsen, Crop & Food

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Integrated Pest & Disease Management for outdoor lettuce  
G Walker et al, Crop & Food  
August 2005

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Nutritional attributes of salad vegetables  
L J Hedges & C E Lister, Crop & Food  
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Control of grass grubs in NZ yam crops  
C W van Epenhuijsen et al, Crop & Food  
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Health attributes of yellow / orange vegetables  
L J Hedges & C E Lister, Crop & Food  
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Health attributes of roots & tubers

L J Hedges & C E Lister, Crop & Food

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Nutritional attributes of Brassica vegetables

LJ Hedges & CE Lister, Crop & Food

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Soil nutrition effects on kumara root yield and quality

S L Lewthwaite, Crop & Food and C M Triggs, The University of Auckland

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Evaluation of a natural bacteriophage based surface treatment

Dr Lynn McIntyre, Massey University

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Nutrition Attributes of legumes

L J Hedges & C E Lister, Crop & Food

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Nutritional attributes of legumes (2), sprouted beans & seeds

L J Hedges & C E Lister, Crop & Food

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Nutritional attributes of Allium species

L J Hedges & C E Lister, Crop & Food

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Survey of growers of Asian Brassicas – results & analysis

P Wright, Crop & Food

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Novel biopesticides for systemic protection of root and tuber crops from nematodes and other pathogens (Interim Report)

A Pitman & S Thompson, Crop & Food

January 2007

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Potential of biofumigation for control of diseases caused by soilborne sclerotial plant pathogens

R Falloon et al, Crop & Food

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Nonchemical control of kumara rots after washing

D Brash et al, Crop & Food & HortResearch

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Energy Crop Potential in vegetable rotations

R Renquist, Crop & Food

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Improving Energy Efficiency in Greenhouse Vegetable Production

E Nederhoff & B Houter, Technosolutionz Ltd

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Nutritional attributes of herbs

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Nutritional attributes of spinach, silver beet and egg plant

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Contributions to an understanding of sweetpotato brown centre disorder  
SL Lewthwaite & CM Triggs, Crop & Food  
July 2007

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Advancing integrated pest & disease management for vegetable  
brassicas  
P Wright et al, Crop & Food  
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Implementation phase for integrated pest & disease management (IPM) for  
outdoor head lettuce  
G Walker et al, Crop & Food  
September 2007

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Novel Biopesticides for systemic protection of root & Tuber crops from  
nematodes and other pathogens (Interim Report)  
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