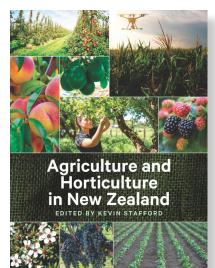


# Agriculture and Horticulture in New Zealand

EDITED BY KEVIN STAFFORD



## \$55

CATEGORY: Agricultural science ISBN: 978-0-9951230-4-5 ESBN: TBC THEMA: TVK, TVS, TVR, 1MBN BIC: TVK. TVR. TVS BISAC: TEC003030, TEC003110, TEC003040, BUS070010 PUBLISHER: Massey University Press **IMPRINT: Massey Texts** PUBLISHED: July 2021 PAGE EXTENT: 272 FORMAT: Limpbound SIZE: 250 x 190 mm **RIGHTS: World** AUTHOR RESIDENCE: Manawatū. New Zealand

### AN ESSENTIAL GUIDE TO NEW ZEALAND'S DYNAMIC AGRICULTURAL AND HORTICULTURAL INDUSTRY

Written by experts from Massey University's School of Agriculture and Environment, this is an accessible and straightforward overview of the business of growing plants for human and animal consumption, as well as forestry and flower production. It has a focus on New Zealand practices, and information on social issues, environmental costs, food safety, chemical use, post-harvest management and availability.

Chapters cover pasture and forages, field crops and vegetables, kiwifruit, grapes, pip fruit and summer fruit. There are also useful chapters on soils and precision agriculture, and how new technologies are improving productivity and sustainability.

The book is aimed at high school students studying agriculture, and year one tertiary students undertaking degrees or diplomas in this subject. Those studying agribusiness, resource management, nutrition, food technology and ecology will also find it helpful.

#### SALES POINTS

- Overview of the growing agricultural and horticultural industries in New Zealand written by experts
- Specific content on local practices not available in other publications, as well as information on social issues, environmental costs, food safety, chemical use, post-harvest management and availability
- Valuable guide for agricultural science students at all levels, lifestyle block owners, farmers and media
- In the same series as the highly regarded *Livestock Production in New Zealand*, also edited by Kevin Stafford.

#### ABOUT THE EDITOR

**Professor Kevin Stafford** is a veterinarian with an interest in animal behaviour and welfare. He is the author of several books, including *Livestock Production in New Zealand*. He is a fellow of the both the Royal College of Veterinary Surgeons and the Australian New Zealand College of Veterinary Scientists.

#### PRINTABLE A3 POSTER AVAILABLE UPON REQUEST







	Vegetable Production 63
<ul> <li>winter melon (honeydew melon) (G. melo cv. Insdorus)</li> </ul>	and seeds. The plants are harvested at such an immature stage of their life that they have a
<ul> <li>cantaloupe melon (rock melon) (C. melo cv. Cantalupensis)</li> </ul>	limited lifespan and require good post-harvest management. The key crops used to produce
<ul> <li>snake melon (C. melo cv. Flexosus)</li> </ul>	these products are:
<ul> <li>Oriental sweet melon (C. melo cv. Makawa)</li> </ul>	<ul> <li>alfalfa</li> <li>lentils</li> </ul>
Mushrooms	<ul> <li>chickpeas</li> </ul>
The production of mushrooms is very much a	<ul> <li>adzuki beans</li> </ul>
niche industry in New Zealand, involving highly	<ul> <li>kaiware (daikon radish seeds)</li> </ul>
specialised growing conditions. It is a growth in-	<ul> <li>sunflowers (shoots)</li> </ul>
dustry, and in recent years there has been an up-	<ul> <li>mustard</li> </ul>
surge in new varieties of mushroom (mostly of	<ul> <li>mung beans</li> </ul>
Asian origin) being introduced to New Zealand	<ul> <li>snowpeas</li> </ul>
consumers. Aside from the fresh market options	<ul> <li>blue peas</li> </ul>
there is a considerable market in processed and	<ul> <li>cress</li> </ul>
dried mushroom products. The most popular	<ul> <li>broccoli</li> </ul>
mushrooms now grown are:	<ul> <li>soybeans.</li> </ul>
· button or brown mushrooms (Agaricus bis-	
porus)	Indoor production practices
<ul> <li>shiitake mushrooms (Lentinus edodes)</li> </ul>	In any indoor system the advantage for the
<ul> <li>oyster mushrooms (phoenix tails or pleurots) (Pleurotus pulmanarius)</li> </ul>	producer is the ability to manipulate the envi- ronment to produce crops to a predetermined
<ul> <li>enokitake mushrooms (enoki or golden nee- dle mushrooms) (Flammulina wilutines)</li> </ul>	criteria and market. By managing the environ- mental factors, growers can work their system
<ul> <li>truffles (Tuber melanosporum) — outdoor</li> </ul>	to specific harvest requirements including
production only.	dates and volume. In any modern glasshouse or
Comments and because and marked in dark	greenhouse system, growers now have access to computer programs that can be used to respond
Commonly, mushrooms are produced in dark,	
climate-controlled rooms. Mushroom spores are	to production parameters such as climatic and
collected and used to inoculate growing medi- um that then becomes the snawn. The snawn is	water determinants. It is relatively easy to use computer systems to manage temperatures, air-
applied to compost and the cycle of production	flow, nutrient additions and so on. For growers,
begins.	the cost of investing in the establishment of an indoor production unit is set against the returns
Sprouted beans and seeds	it is likely to generate.
This classification of vegetable was previously	The other mitigating factor for growers is that
categorised under the name 'bean sprouts'.	some crops respond better to indoor systems
There is a consistent demand for sprouted beans	than others. Many of culinary herbs can be

#### Parks and gardens

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