

Final Report

Digitisation of mushroom industry archive

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Australian Mushroom Growers Association

Project code:

MU21000

Project:

Digitisation of mushroom industry archive (MU21000)

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Public summary

This project digitised the Australian Mushroom Growers' Association archive of industry research, marketing, and communication outputs, providing the Australian mushroom industry with full access to these valuable materials. The archive included industry journals, research reports, books, posters, and recipes.

The materials cover numerous topics including market and consumer research, training and educational materials, pests and diseases and production and crop.

All materials were digitised and made available online through the Australian Mushroom Growers Association (AMGA) website. The documents were categorised to allow easy access by Australian mushroom growers, suppliers, researchers, and other industry stakeholders.

As a result of this project, the Australian mushroom industry has access to a wealth of resources which were previously unavailable. In the longer term, this will increase their awareness of results from previous R&D and marketing investments, increasing productivity and quality across the mushroom industry.

The newly digitised resources will be further promoted through the Mushroom Industry Communications Program (MU21003), as the project overview will be communicated within the Australian Mushrooms Journal, new industry communications website and Industry Update e-newsletter. The AMGA will also communicate the new resource via the AMGA Update e-newsletter.

Keywords

Mushroom; digitisation; archive; library; AMGA

Introduction

Over the last 61 years, the Australian Mushroom Growers Association has amassed a large volume of resources. Many of these resources are industry communication journals and outputs from industry funded projects. Others originate from international linkages, conferences, and state governments, as well as historical industry publications that preclude the associations formation.

After the closure of the AMGA head office in Windsor, these materials were stored in unmarked boxes and moved to a rented shed for a number of years, and later, to a shipping container on a local farm. Many of these resources remain valuable to mushroom industry stakeholders, however the materials were inaccessible. The objective of this project was to quantify, catalogue and digitise the collection, allowing industry members to access the resources online through keyword searching.

Through this project, a total of 490 documents including articles, magazines, reports, books, posters, and handbooks have been digitized and are now available on the AMGA website. The digital materials are easily accessible by members, researchers and industry stakeholders, who can now search, view or download materials in a matter of minutes. The industry be made aware of what research and communication outputs are now available to them.

Methodology

Task 1: Assess the archive and develop a quote

The archive was assessed by the project team, the exact quantities of materials, sizes and quality of text and images was determined. The archive was reviewed together with Mary Beth Tolson, who had recently sorted through many of the documents. The format of the documents was recorded, such as: bound vs loose and quality of text. A final quote was then developed, presented to, and approved by Hort Innovation.

Task 2: Scan and digitise the documents

A high-quality document scanner (Samsung MultiXpress X7500LX) was used to digitise the archive. This scanner allowed 2-sided, high resolution (300 DPI minimum), colour scanning to occur efficiently. An automatic feed system was used, which facilitated efficient scanning of large documents. For documents which could not be automatically fed into the scanner, the flatbed scanner was used. In most cases, documents could be removed from their bindings easily. For larger documents, such as books, the spines were removed using a document slicer.

Adobe Acrobat DC Pro was used to transform the scanned images into digital PDFs. The in-built Optical Character Recognition (OCR) functionality allowed text to be detected and made searchable for all documents.

All documents were returned to the archive after scanning.

Task 3: Index materials and enter metadata

All documents were indexed to allow for keyword searches, as well as searching by categories. Metadata included:

- Author(s)
- Date published
- Title
- Format
- Project number
- Topic category

A spreadsheet containing metadata and links to the scanned documents was created (Appendix 1). This spreadsheet facilitated the efficient upload of the archive.

Task 4: Communicate digitised materials to the mushroom industry

All documents were loaded onto the AMGA website in the '[AMGA Document Library](#)' section. Existing documents on the website were re-categorised and labeled, so that they were consistent with the new uploads. The members only area requires login access, thus limiting the newly digitised material to the Australian mushroom industry.

The Australian mushroom industry will be informed of the new materials via the upcoming industry communications project (MU21003). This will include an article in the Australian Mushrooms Journal (Draft article in Appendix 2), and an update via the monthly e-newsletter.

The AMGA produced [a short instructional video](#), to explain the digitisation project, what materials are now available, and how to search for them. A link to the video will be included in the industry communications and in next months 'AMGA Update' e-newsletter, which is emailed AMGA members.

The aim of these communications will be to clearly explain to industry what content is available, and where to find it.

Results and discussion

In total, 490 documents were scanned and digitised. These scanned documents fell into a variety of categories. AHR worked with the AMGA to establish a list of sixteen categories which would allow documents to be easily accessed by stakeholders.

These categories are listed below, along with the count of resources in each category.

- Administration Report (43)
- AMGA Journal (71)
- AMGA Newsletter (51)
- Composting (6)
- Conference Proceedings (26)
- Environmental Impacts (7)
- Food Safety and Quality Assurance (4)
- Human Health and Nutrition (8)
- Market and Consumer Research (48)
- News (11)
- Occupational Health and Safety (10)
- Pests and Diseases (41)
- Postharvest (14)
- Production and Crop (57)
- Recipes (43)
- Training and Educational Materials (50)

The publication dates of the documents ranged from 1931 to 2016. A collection of 19 scientific journals ranging from 1968 to 1996 are a notable addition to the library. The majority of the collection consists of reports and magazines, with a small number of posters.

An example of the value the digital library provides industry, is the historical research reports on the topic of peat alternatives. The industry is currently working on an investment recommendation to research an alternative to peat moss, a finite and expensive resource which has been of industry concern since the 1970's. The digitization project has uncovered 14 historical reports and articles, dating from 1974 to 1993, which can now be used as references for the future project.

All of the digitised resources were previously unavailable online. The digitisation and categorisation of these documents has provided the mushroom industry with access to a wealth of valuable resources.

Outputs

Table 1. Output summary

Output	Description	Detail
All files in AMGA archive digitised	The AMGA archive was digitised as outlined in the methodology section of this report. A total of 490 files were uploaded to the AMGA library. This archive is available to AMGA members.	The AMGA archive is accessible through the AMGA members area of the AMGA website, within the AMGA Document Library. Link to the AMGA document library: https://australianmushroomgrowers.com.au/document-library/
Journal article and newsletter update on the recently digitised materials	Article and newsletter update to explain how to access the digitised materials, and what is available.	To be included in the newly established Mushroom Industry Communications Program (MU21003).
How to video	A short video was produced which explains access and usage of the AMGA archive. The video outlines: • Logging into the members area • Accessing the library • Using document categories • Searching the archive • How to view documents • How to download documents	The video was uploaded to the AMGA website and to the AMGA YouTube channel. Link to the video: https://youtu.be/tiPxgDRGcjE
A final report	A final report was produced which outlined the methodology, results, outcomes and outputs of the project.	The final report will be available from the resources section of the Mushroom Fund page of the Hort Innovation website, and the AMGA Digital Document Library. Link to report location: https://www.horticulture.com.au/growers/mushroom-fund/resources/

Outcomes

Table 2. Outcome summary

Outcome	Alignment to fund outcome, strategy and KPI	Description	Evidence
Increased awareness within the mushroom industry of their R&D and marketing investments, as well as any other related programs	Outcome 3: Extension and capability, Strategy 1	The presence of historical R&D and marketing reports in the library will help increase awareness of previous investments.	As the material has only recently been loaded to the library, no usage information exists. Library usage will be tracked over time.
Knowledge transfer to the mushroom industry value chain on research findings, best practice, emerging risks and opportunities	Outcome 3: Extension and capability, Strategy 1	The library has been designed so that resources are easy to locate and access. Future investments can take advantage of this format, which will help facilitate effective knowledge transfer.	As the material has only recently been loaded to the library, no usage information exists. Library usage will be tracked over time.
Improved understanding leading to increased on-farm adoption of R&D program outcomes to build a stronger, more resilient Australian mushroom industry	Outcome 3: Extension and capability, Strategy 1	Digitisation has improved access to research reports, which will likely increase the uptake of R&D on-farm.	As the material has only recently been loaded to the library, no usage information exists. Library usage will be tracked over time.
Enhanced communication and sharing of knowledge and information on technical developments in the mushroom industry	Outcome 3: Extension and capability, Strategy 1	The digitised materials provide a new resource for future communication and knowledge sharing.	As the material has only recently been loaded to the library, no usage information exists. Library usage will be tracked over time.

Monitoring and evaluation

The short duration and limited scope of this project meant that no formal monitoring and evaluation was developed. Additionally, the digitised resources were loaded to the AMGA website within 2 weeks of the project completion date. Nonetheless, future usage of the resources will be easily tracked through the AMGA website.

No project risk register was developed in the project, also due to the short duration and limited scope. However the project is a risk mitigation strategy in itself, as valuable resources are now available to the mushroom industry which may have otherwise been lost.

Recommendations

This project has created a large volume of newly digitised resources. The upcoming MU21003 project has the potential to play a large role in promoting the use of these resources. Future communications will be able to feature resources and direct users to material on specific topics. In addition, once the MU21003 project is underway, it will be straightforward to load the digital archive to the new website.

The digitised materials should be reviewed when future industry R&D investments are made. That will ensure previous work is not repeated, and that future investments build on what may have been done previously.

The AMGA Digital Library will continue to be updated by the AMGA, to ensure it is a lasting and valuable resource for members. The AMGA will manage a monthly update of the digital library, which will include future Australian Mushroom Journals, Hort Innovation final reports for research and development and marketing.

Intellectual property

No project IP or commercialisation to report

Appendices

Appendix 1. Spreadsheet of digitised materials.

Name	Author	Date	Project Number	Categories	Format
AMGA Newsletter - December 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - October 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - August 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - June 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - April 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - February 1990	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - December 1989	AMGA	1989		AMGA Newsletter	Magazine
AMGA Newsletter - June 1989	AMGA	1989		AMGA Newsletter	Magazine
AMGA Newsletter - February 1989	AMGA	1989		AMGA Newsletter	Magazine
AMGA Newsletter	AMGA	1990		AMGA Newsletter	Magazine
AMGA Newsletter - August 1989	AMGA	1989		AMGA Newsletter	Magazine
AMGA Newsletter - October 1989	AMGA	1989		AMGA Newsletter	Magazine
AMGA Newsletter - December 1988, No. 19	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - September 1988, No. 18	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - July 1988 , No. 17	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - May 1988, No. 16	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - February/March 1988, No. 15	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - December 1987/January 1988, No. 14	AMGA	1988		AMGA Newsletter	Magazine
AMGA Newsletter - April/May 1987, No. 10	AMGA	1987		AMGA Newsletter	Magazine
AMGA Newsletter - October/November 1987, No. 13	AMGA	1987		AMGA Newsletter	Magazine
AMGA Newsletter Strategic Plan	AMGA			AMGA Newsletter	Magazine
AMGA Newsletter - April 2000, No. 17	AMGA	2000		AMGA Newsletter	Magazine
AMGA Newsletter - February 2000, No. 16	AMGA	2000		AMGA Newsletter	Magazine
AMGA Newsletter - November 1999, No. 15	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - September 1999, No. 13	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - August 1999, No. 12	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - July 1999, No. 11	AMGA	1999		AMGA Newsletter	Magazine

AMGA Newsletter - May 1999, No. 11	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - April 1999, No. 10	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - February 1999, No. 09	AMGA	1999		AMGA Newsletter	Magazine
AMGA Newsletter - Christmas 1998, No. 08	AMGA	1998		AMGA Newsletter	Magazine
AMGA Newsletter - June/July 1998, No. 07	AMGA	1998		AMGA Newsletter	Magazine
AMGA Newsletter - March/April 1998, No. 06	AMGA	1998		AMGA Newsletter	Magazine
AMGA Newsletter - January/February 1998, No. 05	AMGA	1998		AMGA Newsletter	Magazine
AMGA Newsletter - November 1997, No. 04	AMGA	1997		AMGA Newsletter	Magazine
AMGA Newsletter - October 1997, No. 03	AMGA	1997		AMGA Newsletter	Magazine
AMGA Newsletter - September 1997, No. 02	AMGA	1997		AMGA Newsletter	Magazine
AMGA Newsletter - August 1997, No. 01	AMGA	1997		AMGA Newsletter	Magazine
AMGA Journal - Autumn 2001	AMGA	2001		AMGA Journal	Magazine
AMGA Journal - Winter 2001	AMGA	2001		AMGA Journal	Magazine
AMGA Journal - Spring 2001	AMGA	2001		AMGA Journal	Magazine
AMGA Journal - Summer 2001	AMGA	2001		AMGA Journal	Magazine
AMGA Journal - Winter 2000	AMGA	2000		AMGA Journal	Magazine
AMGA Journal - Summer 2000	AMGA	2000		AMGA Journal	Magazine
AMGA Journal - Spring 2000	AMGA	2000		AMGA Journal	Magazine
AMGA Journal - Winter 1999	AMGA	1999		AMGA Journal	Magazine
AMGA Journal - Autumn 1999	AMGA	1999		AMGA Journal	Magazine
AMGA Journal - Summer 1999	AMGA	1999		AMGA Journal	Magazine
AMGA Journal - Spring 1999	AMGA	1999		AMGA Journal	Magazine
AMGA Journal - Winter 1998	AMGA	1998		AMGA Journal	Magazine
AMGA Journal - Summer 1998	AMGA	1998		AMGA Journal	Magazine
AMGA Journal - Spring 1998	AMGA	1998		AMGA Journal	Magazine
AMGA Journal - Autumn 2000	AMGA	2000		AMGA Journal	Magazine
AMGA Journal - March 1998	AMGA	1998		AMGA Journal	Magazine
AMGA Journal - December 1997	AMGA	1997		AMGA Journal	Magazine
AMGA Journal - September 1997	AMGA	1997		AMGA Journal	Magazine
AMGA Journal - June 1997	AMGA	1997		AMGA Journal	Magazine
AMGA Journal - March 1997	AMGA	1997		AMGA Journal	Magazine
AMGA Journal - December 1996	AMGA	1996		AMGA Journal	Magazine
AMGA Journal - September 1996	AMGA	1996		AMGA Journal	Magazine

AMGA Journal - June 1996	AMGA	1996		AMGA Journal	Magazine
AMGA Journal - April 1996	AMGA	1996		AMGA Journal	Magazine
AMGA Journal - January 1996	AMGA	1996		AMGA Journal	Magazine
AMGA Journal - September/October 1995	AMGA	1995		AMGA Journal	Magazine
AMGA Journal - August 1995	AMGA	1995		AMGA Journal	Magazine
AMGA Journal - December 1994	AMGA	1994		AMGA Journal	Magazine
AMGA Journal - September 1994	AMGA	1994		AMGA Journal	Magazine
AMGA Journal - June 1994	AMGA	1994		AMGA Journal	Magazine
AMGA Journal - March 1994	AMGA	1994		AMGA Journal	Magazine
Reminiscences of a Fun'gi - The story of a community that mushroomed	Miller, J	2004		Training and Educational Materials	Book
Australian Mushroom Growers' Annual - 1980, Vol. 3	AMGA	1980		AMGA Journal	Magazine
Australian Mushroom Growers' Annual - 1979, Vol. 2	AMGA	1979		AMGA Journal	Magazine
Australian Mushroom Growers' Annual - 1978, Vol. 1	AMGA	1978		AMGA Journal	Magazine
AMGA Journal - November 1976, Vol. 2, No. 5	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - September 1976, Vol. 2, No. 5	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - July 1976, Vol. 2, No. 4	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - May 1976, Vol. 2, No. 3	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - March 1976, Vol. 2, No. 2	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - January 1976 , Vol. 2, No. 1	AMGA	1976		AMGA Journal	Magazine
AMGA Journal - November 1975, Vol. 1, No. 12	AMGA	1975		AMGA Journal	Magazine
AMGA Journal- September 1975, Vol. 1, No. 11	AMGA	1975		AMGA Journal	Magazine
AMGA Journal - July 1975, Vol. 1, No. 10	AMGA	1975		AMGA Journal	Magazine
AMGA Journal - May 1975, Vol. 1, No. 9	AMGA	1975		AMGA Journal	Magazine
AMGA Journal - March 1975, Vol. 1, No. 8	AMGA	1975		AMGA Journal	Magazine
AMGA Journal - January 1975, Vol. 1, No. 7	AMGA	1975		AMGA Journal	Magazine
AMGA Journal - November 1974, Vol. 1, No. 6	AMGA	1974		AMGA Journal	Magazine
AMGA Journal - September 1974, Vol. 1, No. 5	AMGA	1974		AMGA Journal	Magazine
AMGA Journal - July 1974, Vol. 1, No. 4	AMGA	1974		AMGA Journal	Magazine
AMGA Journal - May 1974, Vol. 2	AMGA	1974		AMGA Journal	Magazine
AMGA Journal - February 1974, Vol. 1	AMGA	1974		AMGA Journal	Magazine
AMGA Journal - November 1972	AMGA	1972		AMGA Journal	Magazine

AMGA Journal - September 1972	AMGA	1972		AMGA Journal	Magazine
AMGA Journal - July 1972	AMGA	1972		AMGA Journal	Magazine
AMGA Journal - May 1972	AMGA	1972		AMGA Journal	Magazine
AMGA Journal - March 1972	AMGA	1972		AMGA Journal	Magazine
AMGA Journal - January 1972	AMGA	1972		AMGA Journal	Magazine
AMGA Journal - November 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - September 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - July 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - May 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - March 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - January 1971	AMGA	1971		AMGA Journal	Magazine
AMGA Journal - September/October 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - August/September 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - July 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - June/July 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - May 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - April/May 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - February/March 1970	AMGA	1970		AMGA Journal	Magazine
AMGA Journal - September 1969	AMGA	1969		AMGA Journal	Magazine
AMGA Newsletter - December 1993	AMGA	1993		AMGA Newsletter	Magazine
AMGA Newsletter - September 1993	AMGA	1993		AMGA Newsletter	Magazine
AMGA Newsletter - June 1993	AMGA	1993		AMGA Newsletter	Magazine
AMGA Newsletter - March 1993	AMGA	1993		AMGA Newsletter	Magazine
AMGA Newsletter - September 1992	AMGA	1992		AMGA Newsletter	Magazine
AMGA Newsletter - June 1992	AMGA	1992		AMGA Newsletter	Magazine
AMGA Newsletter - April 1992	AMGA	1992		AMGA Newsletter	Magazine
AMGA Newsletter - February 1992	AMGA	1992		AMGA Newsletter	Magazine
AMGA Newsletter - October/December 1991	AMGA	1991		AMGA Newsletter	Magazine
AMGA Newsletter - August 1991	AMGA	1991		AMGA Newsletter	Magazine
AMGA Newsletter - June 1992	AMGA	1991		AMGA Newsletter	Magazine
AMGA Newsletter - April 1991	AMGA	1991		AMGA Newsletter	Magazine
AMGA Newsletter - February 1991	AMGA	1991		AMGA Newsletter	Magazine

AMGA Annual Reports and Balance Sheet 1972 - 1973	AMGA	1973		Administration Report	Report
Modified Atmosphere Packaging of Mushrooms - CSIRO Active Packaging Report - June 1997	CSIRO	1997		Postharvest	Report
Fresh Mushroom Monitor - July 2004	Creative Dialogue & Brownlee, M	2004		Market and Consumer Research	Report
Mushrooms - Pest and Disease Control	Fletcher, J et al	1986		Pests and Diseases	Book
Fungi of Australia Vol. 2A	May, T & Wood, A	1997		Training and Educational Materials	Report
Fungi of Australia Vol. 2B	CSIRO	2003		Training and Educational Materials	Report
Handbook on Mushroom Disease Identification and Control	NSW Agriculture and Fisheries	1990		Pests and Diseases	Report
Basic Curriculum, Cultivation of Mushrooms	Mushroom Growers' Training Centre			Training and Educational Materials	Report
Farm Hygiene and Pest and Disease Control - Part 2: Recognition and Control	Bridgewater, S	1986		Pests and Diseases	Report
Frontiers in Mushroom Biotechnology	Rai, R & Upadhyay, R	2005		Production and Crop	Book
Mushroom Biology - Concise Basis and Current Developments	Miles, P & Chang, S	1997		Training and Educational Materials	Report
AMGA Development of National Uniform Grading Standards	LANZ Agricultural consulting	1994		Administration Report	Report
Mushroom Strategy Development Marketing Research	Creative Dialogue	1991		Market and Consumer Research	Report
Mushroom Science VIII	Mushroom Growers Association of Great Britain &	1972		Conference Proceedings	Report

	Northern Ireland				
Mushroom Science XIII Vol 1 Science and cultivation of Edible Fungi	Maher, M	1991		Conference Proceedings	Report
Mushroom Science XIII Vol 12 Science and cultivation of Edible Fungi	Maher, M	1991		Conference Proceedings	Report
AMGA Industry Competencies Standard Manual	AMGA			Training and Educational Materials	Report
Grow Your Own Mushrooms	Department of Agriculture NSW	1981		Training and Educational Materials	Report
Chapter 4: Substrates for Mushroom Production	Department of Agriculture NSW			Composting	Report
The incidence and control of Heteropeza Pygmaea Winnertz in the cultivation of two species of mushroom in New South Wales	Clift, A & Larsson, S	1985		Pests and Diseases	Journal Article
The incidence and ecology of Lycoriella mali in the commercial culture of two species of mushroom in NSW	Clift, A & Larsson, S	1984		Pests and Diseases	Journal Article
Evaluation of two formulations of permethrin for use against adult Lycoriella mali in commercial mushroom culture in NSW	Clift, A & Livanos, G	1988		Pests and Diseases	Journal Article
Application of counter current extraction technique in the regeneration of spent peat moss for mushroom cultivation	Nair, N et al	1984		Production and Crop	Report
Effect of boron and copper contaminants in poultry manure on the growth of the common mushroom, Agaricus bisporus	Cresswell, G et al	1990		Production and Crop	Journal Article
Lipid Profile of Pleurotus sajor caju	Nair, N et al	1988		Production and Crop	Journal Article
Heat therapy of Virus-infected cultures of the cultivated mushroom Agaricus bisporus	Nair, N	1973		Pests and Diseases	Journal Article
Effect of triacylglycerols on growth, lipid profile and lipase activity of Lentinus edodes	Song, C et al	1989		Production and Crop	Journal Article
Some weed moulds of economic importance in mushroom cultivation	Nair, T & Mitchell, F	1990		Pests and Diseases	Report
Mushrooms in Transit: Handle with care	AMGA	1995		Postharvest	Leaflet

Make more money with mushrooms: A retailer's guide	AMGA	1995		Training and Educational Materials	Leaflet
Feast of Fungi	Media Monitors	2000		Recipes	Article
Mushrooms: Five things you did not know about	Media Monitors	2000		Training and Educational Materials	Article
Mushroom cloud issue: Indians still get the shaft	Media Monitors	2000		News	Article
Australian Quarantine and Inspection Service	AQUIS			Pests and Diseases	Article
Sinden on Mushrooms: Collected Papers by Dr JW Sinden and Associated Authors	Sinden, J et al	1979		Production and Crop	Report
AMGA 6th Mushroom Industry Short Course	AMGA	1976		Training and Educational Materials	Report
Cooking with Mushrooms	Dunleavy, B	1978		Recipes	Book
Don't be in the dark about mushroom varieties	Australian Mushrooms			Training and Educational Materials	Poster
AMGA Annual Reports and Balance Sheet 1999 - 2000	AMGA	2000		Administration Report	Report
AMGA Annual Report and Balance Sheet 1997/98	AMGA	1998		Administration Report	Report
AMGA Annual Report and Balance Sheet 1993	AMGA	1993		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1991 - 1992	AMGA	1992		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1990 - 1991	AMGA	1991		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1989 - 1990	AMGA	1990		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1988 - 1989	AMGA	1989		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1987 - 1988	AMGA	1988		Administration Report	Report

AMGA Annual Reports and Balance Sheet 1986 - 1987	AMGA	1987		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1985 -1986	AMGA	1986		Administration Report	Report
AMGA Annual Reports and Balance Sheet 1984 -1985	AMGA	1985		Administration Report	Report
A Field Guide to the Common Genera of Gilled Fungi in Australia	Cole, M et al	1978		Training and Educational Materials	Book
Quick recipes for fresh mushrooms	AMGA	2001		Recipes	Book
The Mushroom Lovers Cookbook	AMGA			Recipes	Book
Mushrooms: The great all-rounder	AMGA	2008		Recipes	Book
Mushrooms Make the Menu	AMGA			Recipes	Book
Mushrooms for all seasons	AMGA			Recipes	Magazine
National Mushroom Grading System for Type and Size Categories	AMGA & HRDC			Postharvest	Poster
AMGA HACCP Food-Safety Guidelines for Substrate Preparation and Fresh Mushroom Production	Food Safety & Quality Research Unit			Food Safety and Quality Assurance	Report
Mushrooms Make the Meal: 7 Autumntime Recipes	AMGA			Recipes	Leaflet
Mushrooms Make the Meal: 7 Springtime Recipes	AMGA			Recipes	Leaflet
Mushrooms Make the Meal: 7 Summertime Recipes	AMGA			Recipes	Leaflet
Mushrooms Make the Meal: 7 Wintertime Recipes	AMGA			Recipes	Leaflet
Mushroom Recipes	AMGA			Recipes	Leaflet
Money's MMMarvelous Mushroom Recipes	None Cited			Recipes	Leaflet
Rosemary Stanton's Stuffed Mushroom Cups	Woolworths			Recipes	Leaflet
Mas Mushroom Growing: Practical Biology	Mas, R	1954		Production and Crop	Book
AMGA Annual Reports and Balance Sheet 1998 - 1999	AMGA	1999		Administration Report	Report
The Bulletin - Autumn Vol. 1, No. 1	AMGA	1945		News	Magazine
Mushrooms as Health Foods	Mori, K	1974		Human Health and Nutrition	Book
Cooking with fresh fruit and vegies	The Sydney Market Authority			Recipes	Book
The Magic of Mushrooms	Marshall, A			Recipes	Book

Mushroom Lovers Cookbook: Country Kitchen Series	Gore, M & AMGA			Recipes	Book
The Book of Mushroom Cookery	Forward, J	1972		Recipes	Book
Australian Mushroom Growers' Association Memorandum and Articles of Association as Amended October 1996	AMGA	1996		Administration Report	Report
South Australian Food Centre Case Study: AMGA	South Australian Food Centre			Training and Educational Materials	Report
AMGA Articles of Association	Russell Kennedy Solicitors			Conference Proceedings	Report
HRDC Final Report to assist the Australian Mushroom Growers Association develop a HACCP Code of Practice for the mushroom industry	Hourigan, J	1999	MU97002	Food Safety and Quality Assurance	Final Report
Pennsylvania Mushroom Integrated Pest Management Handbook	Pennstate College of Agricultural Sciences	2002		Pests and Diseases	Book
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Fresh Mushroom Monitor October 2002	Creative Dialogue	2002		Market and Consumer Research	Report
Fresh Mushroom Monitor July 2006	Creative Dialogue	2006		Market and Consumer Research	Report
Qualitative and Quantitative Consumer Market Research for Fresh Mushrooms Mushroom Monitor - 2006	Creative Dialogue & Brownlee, M	2006		Market and Consumer Research	Final Report
The Fresh Mushroom Buyer A Review of Mushroom Research 1991-1999	Creative Dialogue	1999		Market and Consumer Research	Report
Celebrating 50 Years of Growing Together	AMGA	2011		News	Leaflet
Fresh Mushroom Development Research July 2002	Creative Dialogue	2002		Market and Consumer Research	Report
An Advertising & Promotional Evaluation for The AMGA conducted by SASS	SASS	1999		Market and Consumer Research	Report
Purchasing Trade-offs' Consumer Research - Full Segmented Report - April 2013	Mobium Group	2013		Market and Consumer Research	Report
Mushrooms: The Attitudes and Usage of The Culinary Industry and The Consumer	Brian Sweeney and Associates	1995		Market and Consumer Research	Report
Fresh Mushroom Monitor July 2004	Creative Dialogue	2004		Market and Consumer Research	Report
Australian Mushrooms - Proposal to Develop a Strategic Marketing Plan	Marketing Initiatives	1992		Market and Consumer Research	Report
AMGA Marketing and Promotional Committee Plan	Meyers Strategy Group & AMGA	2000		Market and Consumer Research	Report
Mushroom Biology and Biotechnology	Rai, R et al	2007		Production and Crop	Report
Some thoughts on peat and the quest for an alternative	Hayes, F			Production and Crop	Report

Appendix 2. Australian Mushrooms Journal Article - DRAFT

AMGA Library Goes Digital: Digitisation Project Report

Australian Mushroom Growers, suppliers, researchers and other industry stakeholders now have instant access to a library of historical research reports, Australian Mushrooms journals and newsletters, books, recipes, promotional material and more; as a result of the levy-funded project *MU21000: Digitisation of Mushroom Industry Archive*.

After the closure of the AMGA head office in Windsor in 2014, the AMGA transferred all office files and archive material to a rented storage shed. While “the lock up” was permitted to be accessed by AMGA members, paper files were stored in boxes and not categorised, therefore remained impractical and largely inaccessible.

In 2020, the shed contents were transferred to a shipping container and stored on Robert and Buffie Tolon’s farm in Glossodia, NSW, and in September 2021, the AMGA was successful in securing a levy-funded project to sort through, categorise and digitise the archives, creating an easy to access digital library, preserving the Australian mushroom industry.

The project, which was managed by the AMGA, with support from Applied Horticultural Research (AHR) and Buffie Tolson, a qualified librarian, has resulted in 490 historical documents being digitised, categorised and added to the current *AMGA Document Library* <https://australianmushroomgrowers.com.au/document-library/>.

Combined with the documents already in the digital library, there are now more than 540 documents in the AMGA Library is located within the password protected ‘members only’ section of the AMGA website. The documents are easily filtered by categories and keywords, which can be viewed online or downloaded as a hard copy.

What’s in the AMGA Document Library:

The publication dates of the documents ranged from 1931 to 2016. A collection of 19 scientific journals ranging from 1968 to 1996 are a notable addition to the library. Most of the collection consists of reports and magazines, with a small number of posters.

These categories are listed below, along with the count of resources in each category.

- | | |
|---|---|
| • Administration Report (43) | • Market and Consumer Research (48) |
| • AMGA Journal (71) | • News (11) |
| • AMGA Newsletter (51) | • Occupational Health and Safety (10) |
| • Composting (6) | • Pests and Diseases (41) |
| • Conference Proceedings (26) | • Postharvest (14) |
| • Environmental Impacts (7) | • Production and Crop (57) |
| • Food Safety and Quality Assurance (4) | • Recipes (43) |
| • Human Health and Nutrition (8) | • Training and Educational Materials (50) |

This historical documentation has been added to newer documents within document library, taking the AMGA Library total to 544 documents. The library will continue to grow, as more research reports, journals and articles are added in years to come.

An example of the value the digital library provides industry, is the historical research reports on the topic of peat alternatives. The industry is currently working on an investment recommendation to research for an alternative to peat moss, a finite and costly resource which has been of industry concern since the 1970’s. The digitization project has uncovered 14 historical reports and articles, dating from 1974 to 1993, which can now be used as reviewed for the future project planning.

How to use the AMGA Document Library

To view the AMGA Library, you must be logged into the AMGA Members Area of the AMGA website.

- Visit: <https://australianmushroomgrowers.com.au/members-area/>
- Enter your username and password. (If you do not have a username and password, or if you are having difficulty accessing the members area, please contact the AMGA for assistance)
- Navigate back to the AMGA tab
- You will now see a variety of pages, which are accessible by members only.
- Click AMGA Library.

Documents can be filtered by the Document Category dropdown box, or via an keyword entered into the search bar.

To assist you, a 2-minute video tutorial has been produced to explain how to use the AMGA Digital Document Library, which you can view here: <https://youtu.be/tiPvgDRGcjE>

The screenshot shows the AMGA Document Library website. At the top is the AMGA logo and a navigation bar with links: NUTRITION, RECIPES, LEARN, FOR SCHOOLS, NEWS, and AMGA. Below the navigation bar, there is a paragraph explaining the library's purpose and a note about current levy-funded projects. The main section is titled "AMGA Document Library" and includes a search bar and a dropdown menu for "Document Category". Below this is a table listing various documents.

Title	Date	Content	Categories	Link
AMGA Newsletter – July 1999, No. 11 -3	1999		AMGA Newsletter	
MU20004 – Global Mushroom Product Compendium		This Mushroom Product Compendium was produced as part of the levy-funded project, MU20004: A scoping ...	Market and Consumer Research	
MU20004 – A scoping study to review fungi based global innovations to inform product development opportunities		Running from 2021 to 2022, this six-month levy-funded desktop review, was managed by the AMGA ...	Market and Consumer Research	
AMGA Journal – November 1971	1971		AMGA Journal	
AMGA Newsletter – July 1999, No. 11			AMGA Newsletter	
Mushroom Biology and Biotechnology	2007		Production and Crop	
AMGA Marketing and Promotional Committee Plan	2000		Market and Consumer Research	
Australian Mushrooms – Proposal to Develop a	1992		Market and Consumer	

The AMGA would like to sincerely thank Robert and Buffie Tolson for moving the contents of the storage shed, and storing the contents on their farm, Buffie has personally spent considerable hours sorting through the contents in preparation for the team at AHR to digitise and index, prior to the project, without charge to the AMGA.