APAL Coolstore Stock System

Graeme Forsythe GFAP Pty Ltd

Project Number: AP09048

AP09048

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FINAL REPORT

AP09048 APAL Cool Store Stock System

November 2010

Graeme Forsythe GFAP Pty Ltd

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Purpose

This report is the Final Report of the project known as AP09048 "APAL Coolstore Stock System".

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Date

30 November 2010

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1. Media Summary

APAL collect industry apple & pear cool store stocks monthly and provide reports to industry. This is a continuing service delivered by APAL for industry against industry priorities.

Coolstore stock data is important data for managing crop flow.

The purpose of the new APAL Coolstore Stock System [CSS] project is to automate data capture, processing & reporting, and to allow all Australian coolstores to contribute data.

The current paper based system operates in the following way:

- a) The process is manual with a data capture form emailed to a sample of cool stores on the last day of each month for return on the first day of the new month
- b) Data supplied by cool stores is manually entered into an XLS
- c) This data is factored up to deliver numbers representative of all cool stores
- d) The XLS generates report tables & graphs
- e) A report is then compiled & distributed

Deployment of the web based CSS for apple & pear cool stock reporting will mean:

- a) Data can be contributed by all cool stores, not a sample
- b) Data is entered by electronic form direct to a web server database eliminating rekeying into XLS
- c) Automated generation of tables & graphs
- d) Application of access restrictions according to APAL rules eg only access reports if contribute data
- e) APAL management concentrating on ensuring coolstores submit data and reconciling reports before their release, rather than having to re-key data and process the XLS

2. Technical Summary

A web-based CSS for has been developed to allow:

- a) APAL to register coolstores
- b) Coolstores to enter fruit received in the month & closing stock at month end
- c) APAL to generate reports & graphs of this data

Each participating coolstore is registered on the system and must install the free Formatta Filler software.

The coolstore enters stock received & closing stock for each month of a year on a Coolstore Stock Record Form either by numbers of bins with specified average bin weight or by kilogram. The system aggregates the data for reporting and shows comparisons against the previous year and the previous five years with breakdowns by variety & state.

The system is intuitive and easy to use. It requires little or no training for personnel experienced with normal packing computer software.

The system could be used with any type of produce that is stored for longer periods, not just apples & pears.

3. Introduction

APAL collect industry apple & pear cool store stocks monthly and provide reports to industry. This is a continuing service delivered by APAL for industry against industry priorities. The current system is very manual and extrapolates data to a national level based on data provided by a small sample of coolstores in each state.

GFAP provide the systems & infrastructure that operate industry based data capture & reporting systems for the Australian & New Zealand avocado industries, and citrus, macadamia, onion & stone fruit. These are operated respectively by Avocados Australia, NZ Avocado Industry Council, Citrus Australia, Australian Macadamia Handlers, Onions Australia & Summerfruit Australia.

At the invitation of the APAL R & D Committee GFAP prepared a scoping document to automate data capture & processing and to allow all coolstores to contribute data. The project was subsequently approved by the APAL Board.

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- e) APAL management concentrating on ensuring coolstores submit data and reconciling reports before their release, rather than having to re-key data and process the XLS

Investing in a collaborative web based system will also provide an opportunity to upgrade the functionality of the CSS to include parameters such as pack out estimates.

The APAL "community" infrastructure installed can provide the platform to run other systems that may be required in the future.

4. Materials and Methods

The software was developed by GFAP Pty Ltd and tested with the entry of historical data and then by APAL entering the latest data for 2010.

The program uses the Formatta Filler software to display data entry forms. This software is free and is well suited to use by less skilled operators as the various screens look like a paper form.

The following tasks have been undertaken to bring the new web based collaborative CSS to fruition:

- a) Functional specification for CSS finalised & confirmed
- b) APAL "community" infrastructure installed to provide APAL with:

User Management – allowing APAL to register new Coolstores, change registration details, suspend Coolstores etc [initial registrations will be bulk uploaded]

Content Management - allowing APAL to publish content accessible under login by registered users in the APAL "community"

Profile Management – allowing APAL to maintain lists of varieties and other parameters required for the CSSS

- c) CSS developed
- d) Historical data uploaded into CSSS database
- e) CSS tested internally
- f) CSS tested by pilot group of coolstores
- g) CSS updated based on internal & pilot group testing
- h) CSS rollout

5. Results

The main features of the system are:

- a) GFA infrastructure has been installed allowing APAL to manage coolstore registrations
- b) Master profile forms have been developed
- c) Coolstores can login to enter data for each new month
- d) Coolstores can view their own detailed data but cannot view detailed data belonging to another coolstore
- e) Coolstores can view the aggregated industry data reports & graphs
- f) APAL can generate graphs & reports from the system that they can publish

A manual for the use of the system is provided at Appendix 1.

6. Discussion and Conclusions

This system, while simple, is powerful and will provide a level of efficiency that is unattainable with the current paper based system.

More importantly all Australian coolstores can participate and contribute data. This ensures more accurate data than is currently reported.

7. Recommendations

8. Acknowledgements

This project was facilitated by HAL in partnership with Apple and Pear Australia Ltd (APAL) and was funded by the Apple and Pear industry levy. The Australian Government provides matched funding for all HAL's R&D activities.

Appendix 1: User Instructions for Cool Store Stock System



Download & Install Formatta Filler on PC

November 2010

Login & Setup of User Profile Data

. . . .

- Connect to <u>www.apal.org.au</u>
 Click on "Login" for CSS System [screen 7] to display screen 8
- 3. Enter your Username & Password; click "Login" to display screen 9

User Profile

Login

- 1. Select "Services/Profile Forms" in menu bar on screen 9 to display screen 10
- Click the date link in third column [screen 10] to open User Profile Form" [screen 11]
- 3. Update User Profile data
- 4. Click "Send" button top or bottom right

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Community New Forms

Create Coolstore Stocks Record

Coolstore Stocks Record – First Month

- 1. Select "Cool Store Stocks System" in menu bar under "Services" [screen 9] to display screen 12
- 2. Function button will display "Coolstore Stocks"
- 3. Select "Create Cool Store Stocks" against "Menu Selection", select "Produce" type & "Input Year"; then click "Submit" to display screen 13
- 4. Click the pink button to generate "Cool Store Stocks" Form [screen 14 next page]
- 5. Enter data for the first month
- 6. You can enter No's of Bins or '000Kg
- 7. If you enter No's of Bins change the Av Bin Weight if different to 360Kg
- Click "Send" button top or bottom right
 Close Form [click red "X" at top right of Filler browser]
- 10. Click "Refresh" in menu bar to update the "Create Seed Sales Record" report screen 15

Red labels on Form are mandatory data

Coolstore Stocks Record – Subsequent Months

- 1. The same form is used to enter data for the balance of the year
- 2. You can access the form by repeating "3" to display screen 15; then click the green "Ref No" link to display the form, add the next month's data and click "Send"
- 3. Alternatively you can select View Cool Store Stocks against Menu Selection to display screen 17
- 4. Click one of the green "Ref No" links to display the form, add the next month's data and click "Send"

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View Coolstore Stocks

View Coolstore Stocks

- 1. Select View Cool Store Stocks against Menu Selection to display screen 17
- 2. Use the filters to narrow the selection as required
- 3. Click "Submit" to display the equivalent of screen 18



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Return to Menu Selection Return to Prior Menu

APAL Reports & Graphs

APAL Reports & Graphs

- *3.* From screen 12 click Function button for APAL Reports and Graphs to display screen 17
- 4. Select from the various report & graphing options against "Menu Selection" to display various reports & graphs
- 5. Use the filters to narrow the selection as required
- 1. Click "Submit" to display the equivalent of screen 18-21
- 2. Reports & graphs are available in various formats for each variety & variety comparisons, for each state & state comparisons



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NSW Coolstores

Cool Store Stock System > APAL Reports and Graphs > Volume in Store by State Graph

Coolstore Stocks APAL Reports and Graphs APAL Management Reporting

Return to Menu Selection Return to Prior Menu
Selection Criteria - Produce(Apple) State(All) From Year 2008 to 2010



APAL Management Reporting

APAL Management Reporting

- 1. From screen 12 click Function button for APAL Management Reporting
- 2. This function is primarily for APAL administration to generate reports & graphs for publication in the monthly CSS Report
- 3. The function has been made available to Coolstores
- Examples of reports & graphs display in screens 22-23 below

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