



NORTHERN

SEPTEMBER 2018

GRDC™ **GROWNOTES™**



GRDC™

GRAINS RESEARCH
& DEVELOPMENT
CORPORATION

CHICKPEA

SECTION 15

MARKETING

SELLING PRINCIPLES | NORTHERN CHICKPEAS – MARKET DYNAMICS AND
EXECUTION

SECTION 15

Marketing

The final step in generating farm income is converting the tonnes produced into dollars at the farm gate. This section provides best in class marketing guidelines for managing price variability to protect income and cash-flow.

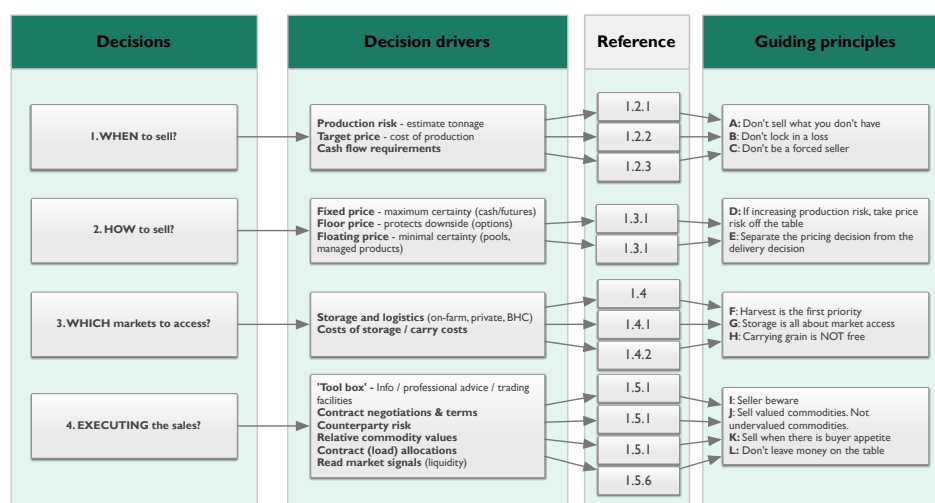
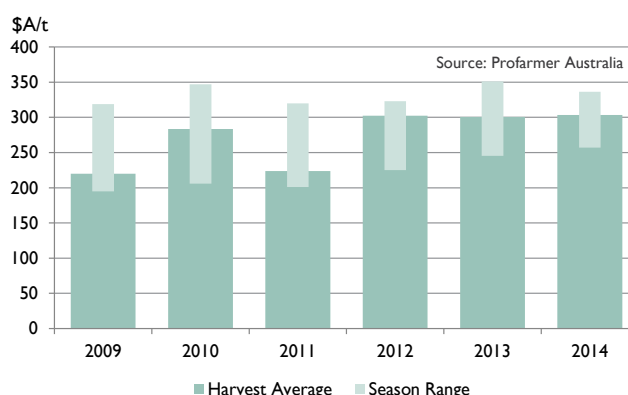


Figure 1: Grain selling flow chart. (Source. Profarmer Australia)

Figure 1 shows a grain selling flow chart that summarises:

- The decisions to be made
- The drivers behind the decisions
- The guiding principles for each decision point

References are made to the section of the GrowNote you will find the detail.



Note to figure:

Newcastle APWI wheat prices have varied A\$70-\$150/t over the past 6 years (25-60% variability). For a property producing 1,000 tonne of wheat this means \$70,000-\$150,000 difference in income depending on price management skill.

Figure 2: Newcastle APWI. (Source. Profarmer Australia)

15.1 Selling Principles

The aim of a selling program is to achieve a profitable average price (the target price) across the entire business. This requires managing several unknowns to establish the target price and then work towards achieving that target price.

Unknowns include the amount of grain available to sell (production variability), the final cost of that production, and the future prices that may result. Australian farm gate prices are subject to volatility caused by a range of global factors that are beyond our control and difficult to predict.

The skills growers have developed to manage production unknowns can be used to manage pricing unknowns. This guide will help growers manage and overcome price uncertainty.

15.1.1 Be prepared

Being prepared and having a selling plan is essential for managing uncertainty. The steps involved are forming a selling strategy and a plan for effective execution of sales.

A selling strategy consists of when and how to sell

When to sell

This requires an understanding of the farm's internal business factors including:

- production risk
- a target price based on cost of production and a desired profit margin
- business cash flow requirements

How to sell?

This is more dependent on external market factors including:

- Time of year determines the pricing method.
- Market access determines where to sell.
- Relative value determines what to sell.

The following diagram lists key selling principles when considering sales during the growing season.



Figure 3: Grower commodity selling principles timeline. (Source. Profarmer Australia)

15.1.2 Establish the business risk profile (when to sell?)

Establishing your business risk profile allows the development of target price ranges for each commodity and provides confidence to sell when the opportunity arises. Typical business circumstances and how to quantify those risks during the production cycle are described below.

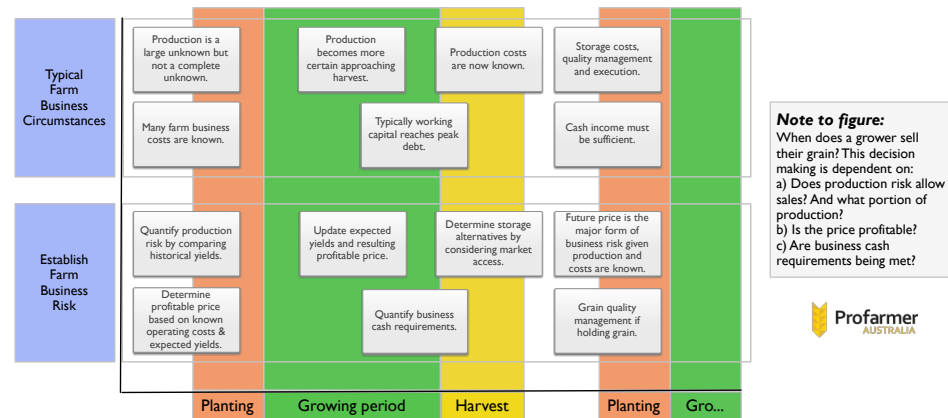


Figure 4: Typical farm business circumstances and risk. (Source. Profarmer Australia)

Production risk profile of the farm

Production risk is the level of certainty around producing a crop and is influenced by location (climate and soil type), crop type, crop management, and time of the year.

Principle: “You can’t sell what you don’t have” – Don’t increase business risk by over committing production.

Establish a production risk profile by:

1. Collating historical average yields for each crop type and a below average and above average range.
2. Assess the likelihood of achieving average based on recent seasonal conditions and seasonal outlook.
3. Revising production outlooks as the season progresses.

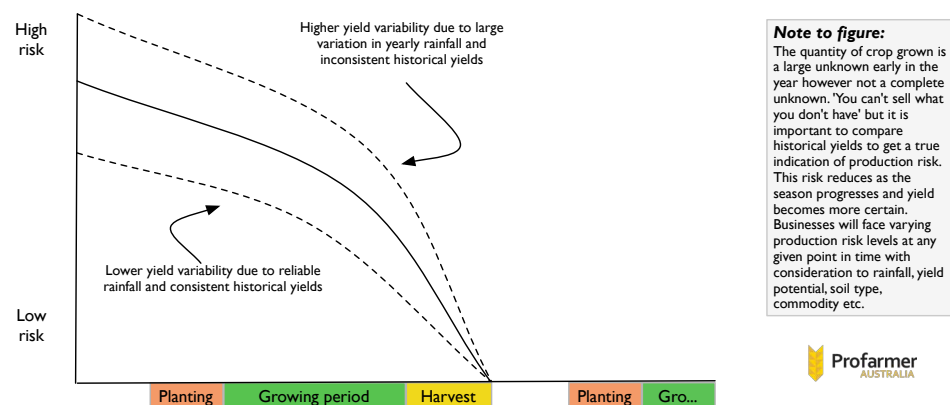


Figure 5: Typical risk profile of farm operation. (Source. Profarmer Australia)

Farm costs in their entirety, variable and fixed costs (establishing a target price).

A profitable commodity target price is the cost of production per tonne plus a desired profit margin. It is essential to know the cost of production per tonne for the farm business.

Principle: “Don’t lock in a loss” – If committing production ahead of harvest, ensure the price is profitable.

Steps to calculate an estimated profitable price based on total cost of production and a range of yield scenarios is provided below.

Estimating cost of production - Wheat		
Planted Area	1,200 ha	
Estimate Yield	2.85 t/ha	
Estimated Production	3,420 t	Step 1: Estimate your production potential. The more uncertain your production is, the more conservative the yield estimate should be. As yield falls, your cost of production per tonne will rise.
Fixed costs		
Insurance and General Expenses	\$100,000	
Finance	\$80,000	
Depreciation/Capital Replacement	\$70,000	Step 2: Attribute your fixed farm business costs. In this instance if 1,200 ha reflects 1/3 of the farm enterprise, we have attributed 1/3 fixed costs. There are a number of methods for doing this (see M Krause “Farming your Business”) but the most important thing is that in the end all costs are accounted for.
Drawings	\$60,000	
Other	\$30,000	
Variable costs		
Seed and sowing	\$48,000	
Fertiliser and application	\$156,000	
Herbicide and application	\$78,000	
Insect/fungicide and application	\$36,000	Step 3: Calculate all the variable costs attributed to producing that crop. This can also be expressed as \$ per ha x planted area.
Harvest costs	\$48,000	
Crop insurance	\$18,000	
Total fixed and variable costs	\$724,000	
Per Tonne Equivalent (Total costs + Estimated production)	\$212 /t	Step 4: Add together fixed and variable costs and divide by estimated production
Per tonne costs		
Levies	\$3 /t	
Cartage	\$12 /t	Step 5: Add on the “per tonne” costs like levies and freight.
Freight to Port	\$22 /t	
Total per tonne costs	\$48 /t	Step 6: Add the “per tonne” costs to the fixed and variable per tonne costs calculated at step 4.
Cost of production Port track equiv	\$259.20	
Target profit (ie 20%)	\$52.00	Step 7: Add a desired profit margin to arrive at the port equivalent target profitable price.
Target price (port equiv)	\$311.20	

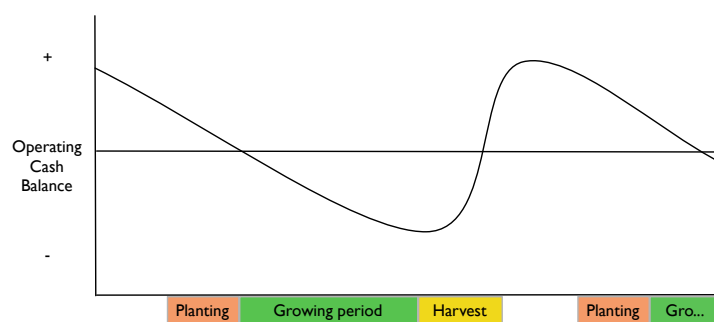
Figure 6: *GRDC’s Farming the Business Manual* also provides a cost of production template and tips on grain selling vs grain marketing.

Income requirements

Understanding farm business cash-flow requirements and peak cash debt enables grain sales to be timed so that cash is available when required. This prevents having to sell grain below the target price to satisfy a need for cash.

Principle: “Don’t be a forced seller” – Be ahead of cash requirements to avoid selling in unfavourable markets.

A typical cash-flow to grow a crop is illustrated below. Costs are incurred upfront and during the growing season with peak working capital debt incurred at or before harvest. This will vary depending on circumstance and enterprise mix. The second figure demonstrates how managing sales can change the farm’s cash balance.

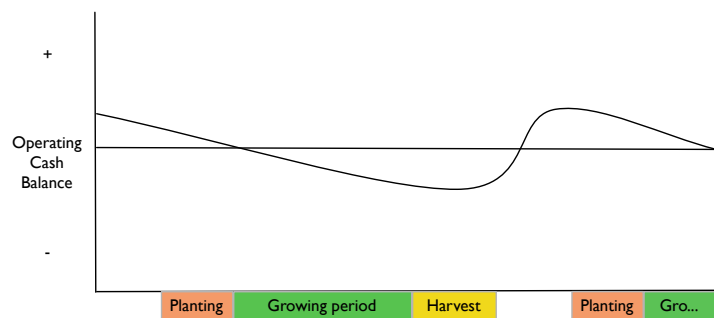


Note to figure:
The chart illustrates the operating cash flow of a typical farm assuming a heavy reliance on cash sales at harvest. Costs are incurred during the season to grow the crop, resulting in peak operating debt levels at or near harvest. Hence at harvest there is often a cash injection required for the business. An effective marketing plan will ensure a grower is 'not a forced seller' in order to generate cash flow.


 Profarmer
AUSTRALIA

In this scenario peak cash surplus starts higher and peak cash debt is lower

Figure 7: Typical operating cash balance (assuming harvest cash sales). (Source. Profarmer Australia)



Note to figure:
By spreading sales throughout the year a grower may not be as reliant on executing sales at harvest time in order to generate required cash flow for the business. This provides a greater ability to capture pricing opportunities in contrast to executing sales in order to fulfil cash requirements.


 Profarmer
AUSTRALIA

In this scenario peak cash surplus starts lower and peak cash debt is higher

Figure 8: Typical operating cash balance cash sales spread throughout the year). (Source. Profarmer Australia)

When to sell revised

The “when to sell” steps above result in an estimated production tonnage and the risk associated with that tonnage, a target price range for each commodity, and the time of year when cash is most needed.

15.1.3 Managing your price (how to sell?)

The first part of the selling strategy answers the question “when to sell” and establishes comfort around selling a portion of the harvest.

The second part of the strategy addresses “how to sell”.

Methods of price management

Principle: “If increasing production risk, take price risk off the table” – When committing unknown production, price certainty should be achieved to avoid increasing overall business risk.

Table 1: Pricing products provide varying levels of price risk coverage.

	Description	Wheat	Barley	Canola	Oats	Lupins	Field peas	Chick peas
Fixed price products	Provides the most price certainty	Cash, futures, bank swaps	Cash, futures, bank swaps	Cash, futures, bank swaps	Cash	Cash	Cash	Cash
Floor price products	Limits price downside but provides exposure to future price upside	Options on futures, floor price pools	Options on futures	Options on futures	none	none	none	none
Floating price products	Subject to both price upside and downside	Pools	Pools	Pools	Pools	Pools	Pools	Pools

Principle: “Separate the pricing decision from the delivery decision” – Most commodities can be sold at any time with delivery timeframes negotiable, hence price management is not determined by delivery.

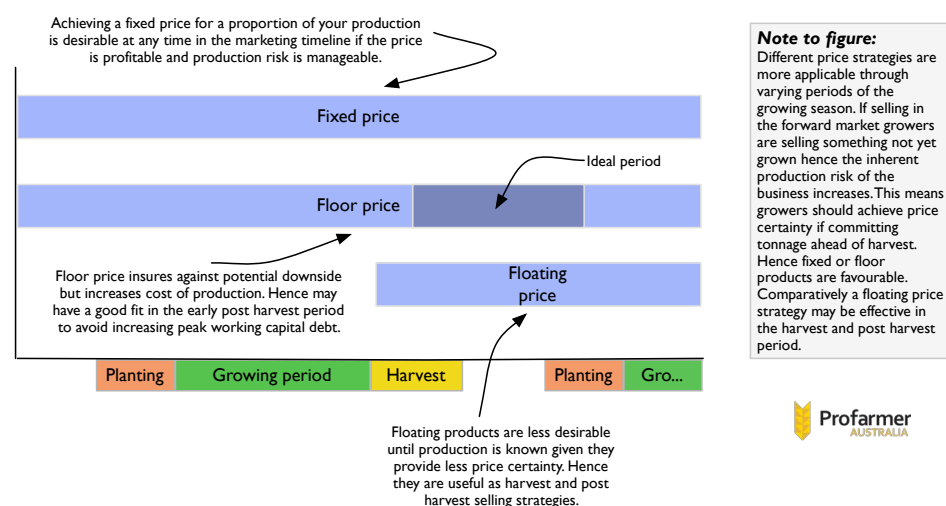


Figure 9: Summary of where different methods of price management are suited for the majority of farm businesses. (Source. Profarmer Australia)

Fixed price

A fixed price is achieved via cash sales and/or selling a futures position (swaps).

It provides some certainty around expected revenue from a sale as the price is largely a known except when there is a floating component in the price. For example, a multi-grade cash contract with floating spreads or a floating basis component on futures positions.

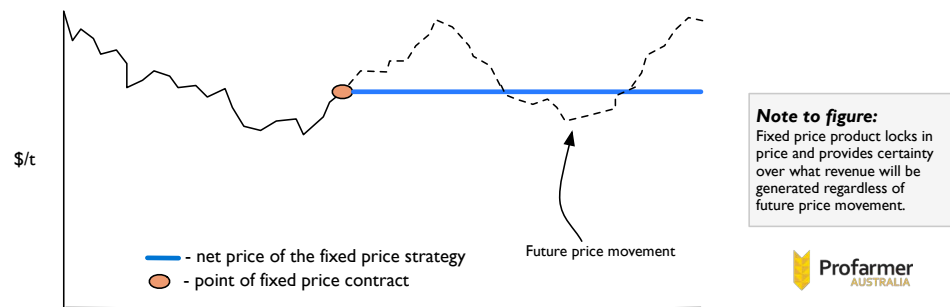


Figure 10: Fixed price strategy. (Source. Profarmer Australia)

Floor price

Floor price strategies can be achieved by utilising “options” on a relevant futures exchange (if one exists), or via a managed sales program product by a third party (ie. a pool with a defined floor price strategy). This pricing method protects against potential future downside whilst capturing any upside. The disadvantage is that the price ‘insurance’ has a cost which adds to the farm businesses cost of production.

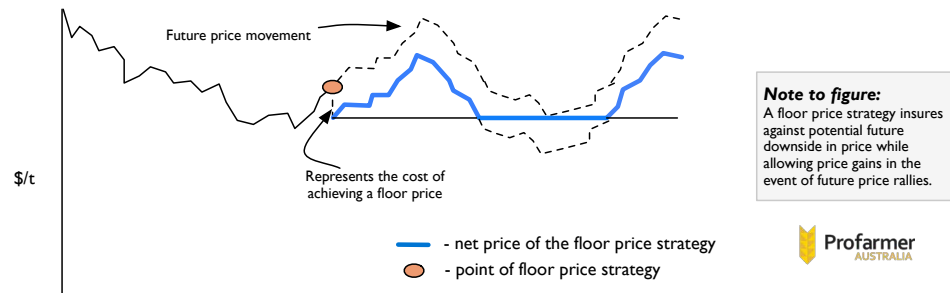


Figure 11: Floor price strategy. (Source. Profarmer Australia)

3. Floating price

Many of the pools or managed sales programs are a floating price where the net price received will move both up and down with the future movement in price. Floating price products provide the least price certainty and are best suited for use at or after harvest rather than pre harvest.

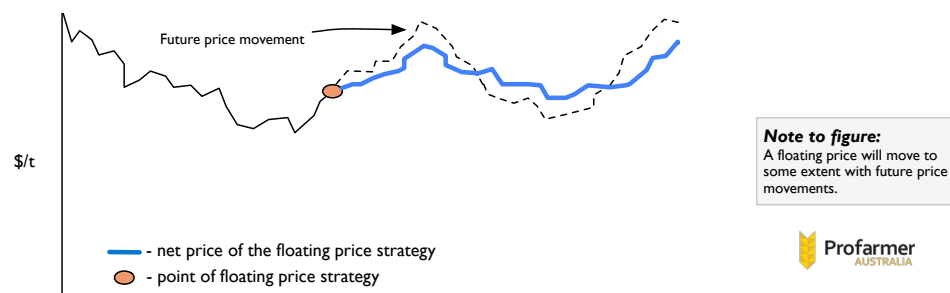


Figure 12: Floating price strategy. (Source. Profarmer Australia)

How to sell revised

Fixed price strategies include physical cash sales or futures products and provide the most price certainty but production risk must be considered.

Floor price strategies include options or floor price pools. They provide a minimum price with upside potential and rely less on production certainty but cost more.

Floating price strategies provide minimal price certainty and are best used after harvest.

15.1.4 Ensuring access to markets

Once the selling strategy of when and how to sell is sorted, planning moves to storage and delivery of commodities to ensure timely access to markets and execution of sales. At some point growers need to deliver the commodity to market. Hence planning on where to store the commodity is important in ensuring access to the market that is likely to yield the highest return.

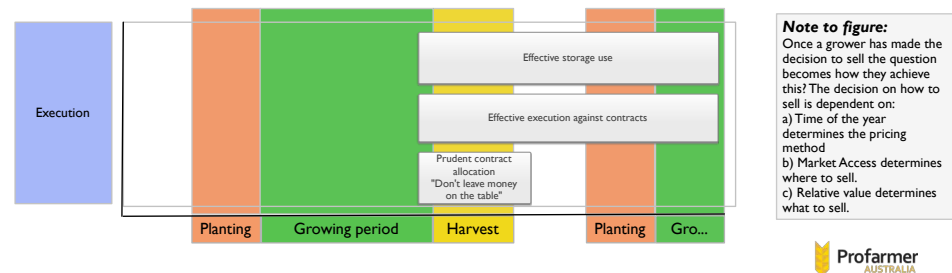


Figure 13: Effective storage decisions. (Source. Profarmer Australia)

Storage and Logistics

Return on investment from grain handling and storage expenses is optimised when storage is considered in light of market access to maximise returns as well as harvest logistics.

Storage alternatives include variations around the bulk handling system, private off farm storage, and on-farm storage. Delivery and quality management are key considerations in deciding where to store your commodity.

Principle: “Harvest is the first priority” – Getting the crop in the bin is most critical to business success during harvest, hence selling should be planned to allow focus on harvest.

Bulk Export commodities requiring significant quality management are best suited to the bulk handling system. Commodities destined for the domestic end user market, (e.g feed lot, processor, or container packer), may be more suited to on-farm or private storage to increase delivery flexibility.

Storing commodities on-farm requires prudent quality management to ensure delivery at agreed specifications and can expose the business to high risk if this aspect is not well planned. Penalties for out-of-specification grain on arrival at a buyer's weighbridge can be expensive. The buyer has no obligation to accept delivery of an out-of-specification load. This means the grower may have to incur the cost of taking the load elsewhere whilst also potentially finding a new buyer. Hence there is potential for a distressed sale which can be costly.

On-farm storage also requires prudent delivery management to ensure commodities are received by the buyer on time with appropriate weighbridge and sampling tickets.

Principle: “Storage is all about market access” – Storage decisions depend on quality management and expected markets.

Reference:

For more information on on-farm storage alternatives and economics refer Section 14. Grain Storage.

For more information on on-farm storage alternatives and economics refer GRDC Western Region - Wheat - GrowNote, Chapter 14 Grain Storage

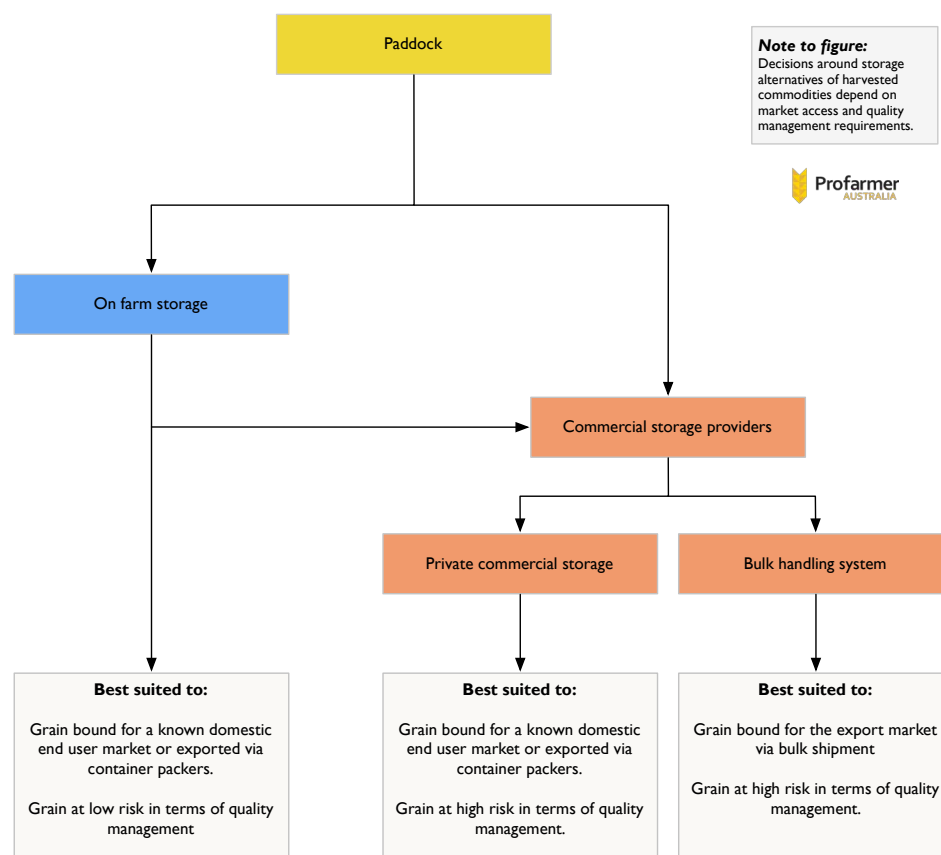


Figure 14: Grain storage decision-making. (Source: Profarmer Australia)

Cost of carrying grain

Storing grain to access sales opportunities post-harvest invokes a cost to “carry” grain. Price targets for carried grain need to account for the cost of carry.

Carry costs are typically \$3-4/t per month consisting of:

1. monthly storage fee charged by a commercial provider (typically ~\$1.50-2.00/t per month)
2. the interest associated with having wealth tied up in grain rather than cash or against debt (~\$1.50-\$2.00/t per month depending on the price of the commodity and interest rates).

The price of carried grain therefore needs to be \$3-4/t per month higher than what was offered at harvest.

The cost of carry applies to storing grain on farm as there is a cost of capital invested in the farm storage plus the interest component. \$3-4/t per month is a reasonable assumption for on farm storage.

Principle: “Carrying grain is not free” – The cost of carrying grain needs to be accounted for if holding grain and selling it after harvest is part of the selling strategy.

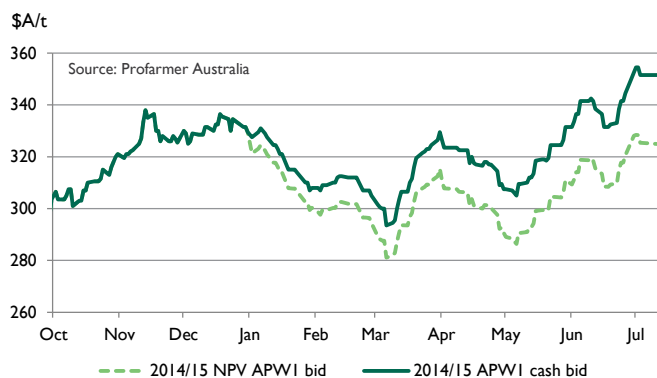


Figure 15: Brisbane APW2 cash vs NPV. (Source. Profarmer Australia)

Note to figure:

If selling a cash contract with deferred delivery, a carry charge can be negotiated into the contract. For example in the case of a March sale of APW2 wheat for March-June delivery on buyers call at \$300/t + \$3/t carry per month, if delivered in June would generate \$309/t delivered.

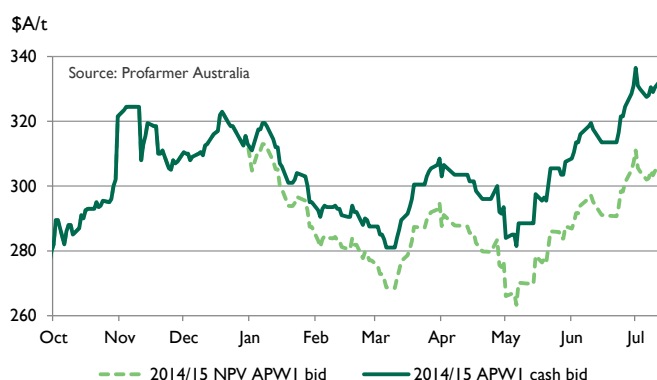


Figure 16: Newcastle APW1 cash vs NPV. (Source. Profarmer Australia)

Note to figure:

If selling a cash contract with deferred delivery, a carry charge can be negotiated into the contract. For example in the case of a March sale of APW1 wheat for March-June delivery on buyers call at \$300/t + \$3/t carry per month, if delivered in June would generate \$309/t delivered.

15.1.5 Ensuring market access revised

Optimising farm gate returns involves planning the appropriate storage strategy for each commodity to improve market access and cover carry costs in pricing decisions.

15.1.6 Executing tonnes into cash

This section provides guidelines for converting the selling and storage strategy into cash by effective execution of sales.

Set-up the tool box

Selling opportunities can be captured when they arise by assembling the necessary tools in advance. The toolbox includes:

1. Timely information
 - This is critical for awareness of selling opportunities and includes
 - market information provided by independent parties
 - effective price discovery including indicative bids, firm bids, and trade prices
 - other market information pertinent to the particular commodity.

2. Professional services

Grain selling professional service offerings and cost structures vary considerably. An effective grain selling professional will put their clients' best interest first by not having conflicts of interest and investing time in the relationship. Return on investment for the farm business through improved farm gate prices is obtained by accessing timely information, greater market knowledge and greater market access from the professional service.

1. Futures account and bank swap facility

These accounts provide access to global futures markets. Hedging futures markets is not for everyone however strategies which utilise exchanges such as CBOT can add significant value.

References:

The link below provides current financial members of Grain Trade Australia including buyers, independent information providers, brokers, agents, and banks providing over-the-counter grain derivative products (swaps).

<http://www.graintrade.org.au/membership>

The link below provides a list of commodity futures brokers.

<http://www.asx.com.au/prices/find-a-futures-broker.htm>

How to sell for cash

Like any market transaction, a Cash grain transaction occurs when a bid by the buyer is matched by an offer from the seller. Cash contracts are made up of the following components with each component requiring a level of risk management:

- Price - Future price is largely unpredictable hence devising a selling plan to put current prices into the context of the farm business is critical to manage price risk.
- Quantity and Quality -When entering a cash contract you are committing to delivery of the nominated amount of grain at the quality specified. Hence production and quality risk must be managed.
- Delivery terms -Timing of title transfer from the grower to the buyer is agreed at time of contracting. If this requires delivery direct to end users it relies on prudent execution management to ensure delivery within the contracted period.
- Payment terms- In Australia the traditional method of contracting requires title of grain to be transferred ahead of payment; hence counterparty risk must be managed.

GTA Contract No.3
CONTRACT CONFIRMATION
GTA Trade Rules and Dispute Resolution Rules apply to this contract

This Contract is confirmation between:

BUYER Contract No: _____ Name: _____ Company: _____ Address: _____ Buyer ABN: _____ NGR No: _____	SELLER Contract No: _____ Name: _____ Company: _____ Address: _____ Seller ABN: _____ NGR No: _____
--	--

The Buyer and Seller agree to transact this Contract subject to the following Terms and Conditions:

Commodity: _____	GTA Commodity Reference: _____
Grade: _____	Inspection: _____ (Origin - Destination)
Quantity: _____	Tolerance: _____ (Refer over)
Packaging: _____	Weights: _____ (Origin - Destination)
Price: _____	Excl/Incl Free GST _____
Price Basis: _____	
Delivery/Ship Period: _____	(Delivered, Shipped, Free In Store, Free On Board, Ex-Farm, etc.)
Delivery Point and Conveyance: _____	

Payment Terms: The buyer agrees to pay the seller within _____. In the absence of a declaration, payment will be 30 days end of week of delivery.

Levies and Charges: Any industry, statutory or government levies which are not included in the price shall be declared as required by law.

Disclosures: Is any of the crop referred to in this contract subject to a mortgage, Encumbrance or lien and/or Plant Breeder's Rights and/or EPR liabilities and/or registered or unregistered Security Interest? ☐ NO ☐ YES (Please ☐ appropriate box) If "yes" please provide details: _____

Other Special Terms and Conditions: _____

All Contract Terms and Conditions as set out above and on the reverse of this page form part of this Contract. Terms and Conditions written on the face of this Contract Confirmation shall overrule all printed Terms and Conditions on the reverse with which they conflict to the extent of the inconsistency. This Contract comprises the entire agreement between Buyer and Seller with respect to the subject matter of this Contract.

Recipient Created Tax Invoice (RCTI):
To assist with the processing of the Goods and Services Tax compliance, the buyer may prepare, for the seller, a Recipient Created Tax Invoice (RCTI). If the seller requires this service they are required to sign this authorisation.
☐ Please issue a RCTI (Please _____)

Incorporation of GTA Trade & Dispute Resolution Rules:
This contract expressly incorporates the GTA Trade Rules in force at the time of this contract and Dispute Resolution Rules in force at the commencement of the arbitration, under which any dispute, controversy or claim arising out of, relating to or in connection with this contract, including any question regarding its existence, validity or termination, shall be resolved by arbitration.

Buyer's Name: _____ Buyer's Signature: _____ Date: _____	Seller's Name: _____ Seller's Signature: _____ Date: _____
--	--

This Contract has been executed and this form serves as confirmation and should be signed and a copy returned to the buyer/seller immediately. 2014 Edition
©GTA. For GTA member use only.

Grain Trade Australia is the industry body ensuring the efficient facilitation of commercial activities across the grain supply chain. This includes contract trade and dispute resolution rules. All wheat contracts in Australia should refer to GTA trade and dispute resolution rules.

Figure 17: Typical cash contracting. (Source: Grain Trade Australia)

The price point within a cash contract will depend on where the transfer of grain title will occur along the supply chain. The below image depicts the terminology used to describe pricing points along the grain supply chain and the associated costs to come out of each price before growers receive their net farm gate return.

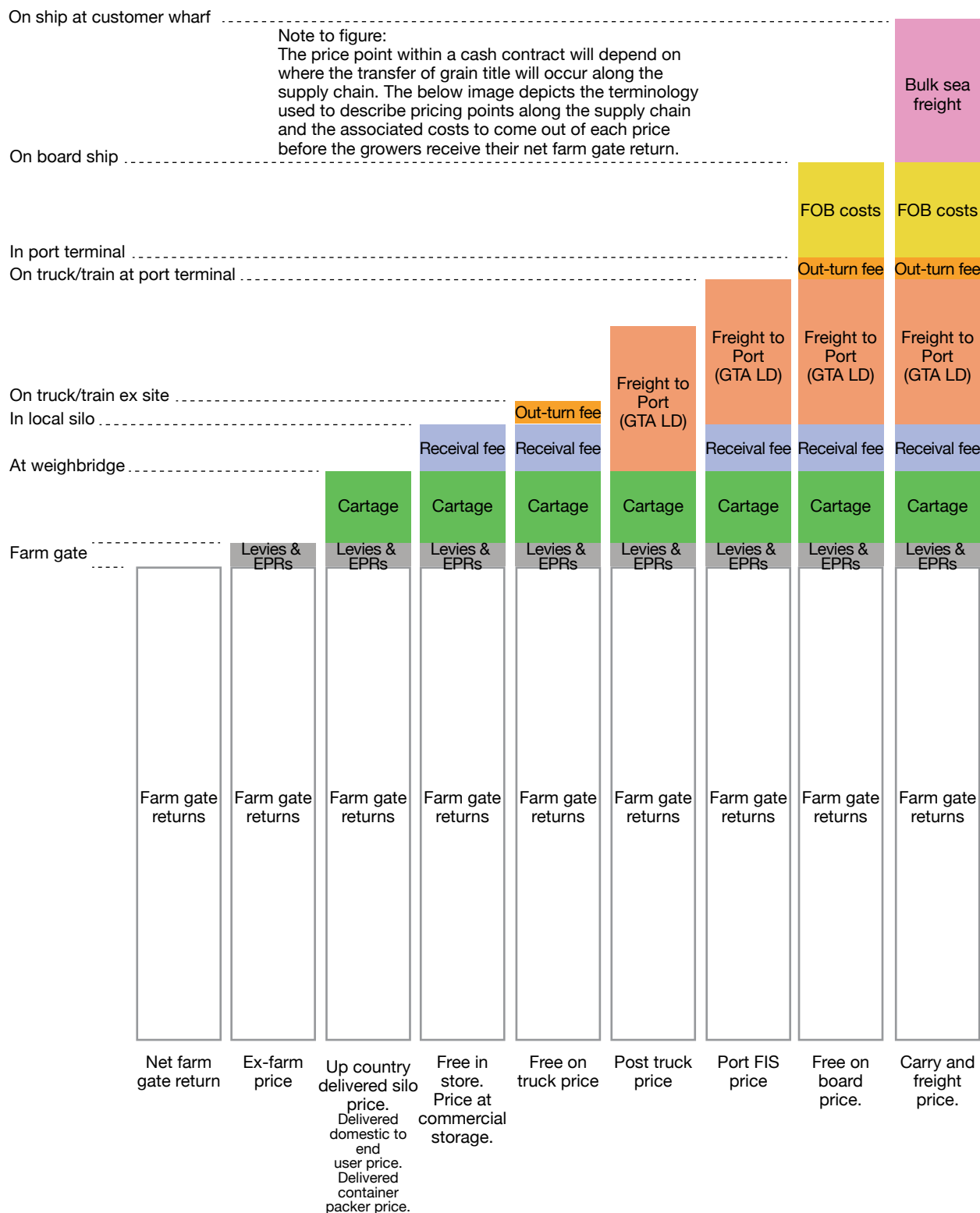


Figure 18: Cost and pricing points throughout the supply chains. (Source. Profarmer Australia)

Cash sales generally occur through three methods:

- Negotiation via personal contact - Traditionally prices are posted as a “public indicative bid”. The bid is then accepted or negotiated by a grower with the merchant or via an intermediary. This method is the most common and available for all commodities.
- Accepting a “public firm bid” - Cash prices in the form of public firm bids are posted during harvest and for warehoused grain by merchants on a site basis. Growers can sell their parcel of grain immediately by accepting the price on offer via an online facility and then transfer the grain online to the buyer. The availability of this depends on location and commodity.
- Placing an “anonymous firm offer” - Growers can place a firm offer price on a parcel of grain anonymously and expose it to the entire market of buyers who then bid on it anonymously using the Clear Grain Exchange, which is an independent online exchange. If the firm offer and firm bid matches, the parcel transacts via a secure settlement facility where title of grain does not transfer from the grower until funds are received from the buyer. The availability of this depends on location and commodity. Anonymous firm offers can also be placed to buyers by an intermediary acting on behalf of the grower. If the grain sells, the buyer and seller are disclosed to each counterparty.

References:

<http://www.australiangrainexport.com.au/docs/Grain%20Contracts%20Guide.pdf>

<http://www.graintrade.org.au/contracts>

http://www.graintrade.org.au/commodity_standards

<http://www.graintransact.com.au>

<http://www.grainflow.com.au>

<http://emeraldgrain.com/grower-logins/>

<https://www.cleargrain.com.au/terms-and-conditions>

<https://www.cleargrain.com.au/get-started>

Counterparty risk

Most sales involve transferring title of grain prior to being paid. The risk of a counterparty defaulting when selling grain is very real and must be managed. Conducting business in a commercial and professional manner minimises this risk.

Principle: “Seller beware” – There is not much point selling for an extra \$5/t if you don’t get paid.

Counterparty risk management includes:

- Dealing only with known and trusted counterparties.
- Conduct a credit check (banks will do this) before dealing with a buyer they are unsure of.
- Only sell a small amount of grain to unknown counterparties.
- Consider credit insurance or letter of credit from the buyer.
- Never deliver a second load of grain if payment has not been received for the first.
- Do not part with title of grain before payment or request a cash deposit of part of the value ahead of delivery. Payment terms are negotiable at time of contracting, alternatively the Clear Grain Exchange provides secure settlement where-by the grower maintains title of grain until payment is received by the buyer, and then title and payment is settled simultaneously.

Above all, act commercially to ensure the time invested in a selling strategy is not wasted by poor counterparty risk management. Achieving \$5/t more and not getting paid is a disastrous outcome.

References:

GTA managing counterparty risk 14/7/2014 <http://www.graintrade.org.au/sites/default/files/Grain%20Contracts%20-%20Counterparty%20Risk.pdf>

Clear Grain Exchange title transfer model – <https://www.cleargrain.com.au/get-started>

GrainGrowers Guide to Managing Contract Risk
www.graingrowers.com.au/policy/resources

Counterparty risk: A producer perspective, Leo Delahunty
http://www.graintrade.org.au/sites/default/files/GTA_Presentations/Counterparty%20risk%20-%20a%20producer's%20perspective%20-%20Leo%20Delahunty.pdf

Relative values

Grain sales revenue is optimised when selling decisions are made in the context of the whole farming business. The aim is to sell each commodity when it is priced well and hold commodities that are not well priced at any given time. That is, give preference to the commodities of the highest relative value. This achieves price protection for the overall farm business revenue and enables more flexibility to a grower's selling program whilst achieving the business goals of reducing overall risk.

Principle: "Sell valued commodities; not undervalued commodities" – If one commodity is priced strongly relative to another, focus sales there. Don't sell the cheaper commodity for a discount.

An example based on wheat and barley production system is provided below.

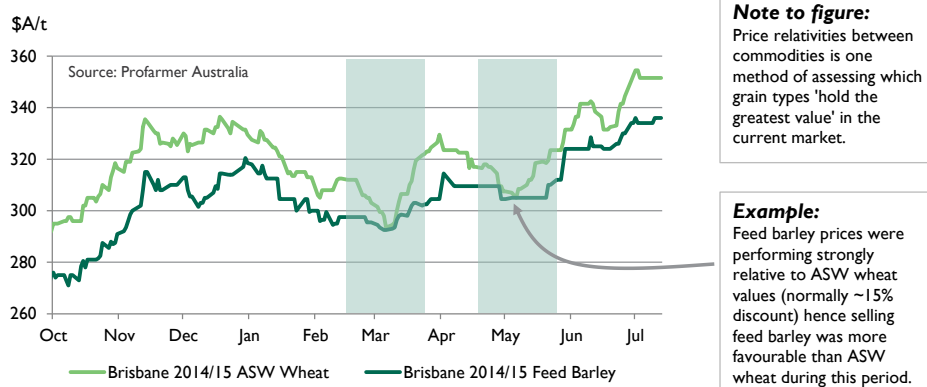


Figure 19: Brisbane ASW Wheat vs Feed Barley. (Source: Profarmer Australia)

If the decision has been made to sell wheat, CBOT wheat may be the better alternative if the futures market is showing better value than the cash market.

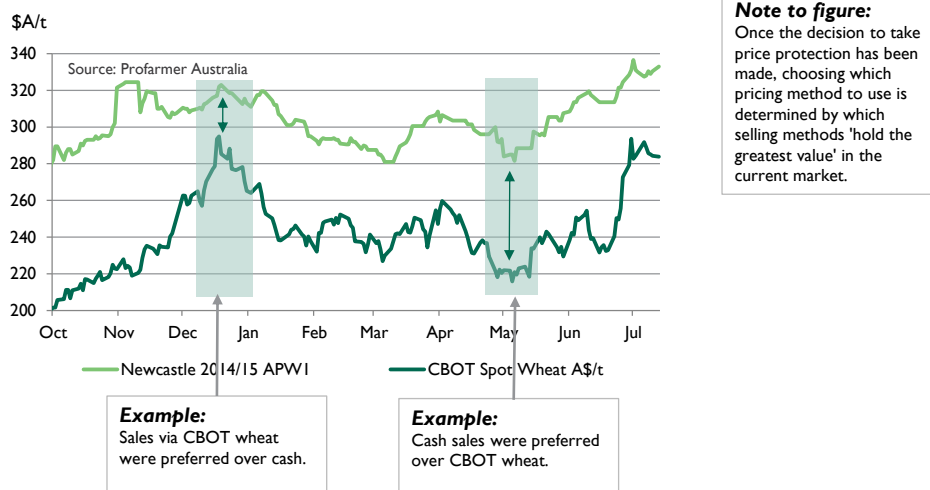


Figure 20: Newcastle ASWI vs CBOT Wheat A\$/t. (Source: Profarmer Australia)

Contract allocation

Contract allocation means choosing which contracts to allocate your grain against come delivery time. Different contracts will have different characteristics (price, premiums-discounts, oil bonuses etc.), and optimising your allocation reflects immediately on your bottom line.

Principle: "Don't leave money on the table" - Contract allocation decisions don't take long, and can be worth thousands of dollars to your bottom line.

To achieve the best average wheat price growers should:

- Allocate your lower grades of wheat to contracts with the lowest discounts.
- Allocate higher grades of wheat to contracts with the highest premiums.

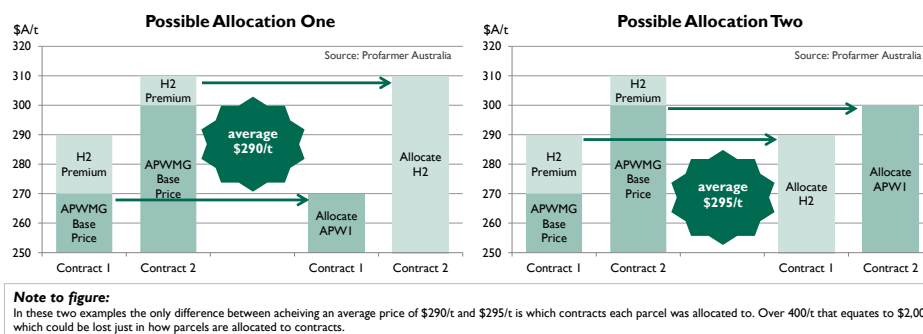


Figure 21: Possible allocation. (Source: Profarmer Australia)

Read market signals

The appetite of buyers to buy a particular commodity will differ over time depending on market circumstances. Ideally growers should aim to sell their commodity when buyer appetite is strong and stand aside from the market when buyers are not that interested in buying the commodity.

Principle: "Sell when there is buyer appetite" - When buyers are chasing grain, growers have more market power to demand a price when selling.

Buyer appetite can be monitored by:

- The number of buyers at or near the best bid in a public bid line-up. If there are many buyers, it could indicate buyer appetite is strong. However if there is one

buyer \$5/t above the next best bid, it may mean cash prices are susceptible to falling \$5/t if that buyer satisfies their buying appetite.

- Monitoring actual trades against public indicative bids. When trades are occurring above indicative public bids it may indicate strong appetite from merchants and the ability for growers to offer their grain at price premiums to public bids. The chart below plots actual trade prices on the Clear Grain Exchange against the best public indicative bid on the day.

15.1.7 Sales execution revised

The selling strategy is converted to maximum business revenue by:

- Ensuring timely access to information, advice and trading facilities
- Using different cash market mechanisms when appropriate
- Minimising counterparty risk by effective due diligence
- Understanding relative value and selling commodities when they are priced well
- Thoughtful contract allocation
- Reading market signals to extract value from the market or prevent selling at a discount

15.2 Northern chickpeas – market dynamics and execution

15.2.1 Price determinants for northern chickpeas

Australia is a relatively small player in terms of world pulse production, producing 1-2 million tonnes of pulses in any given year vs global production of approximately 60 million tonnes. Chickpeas are the largest global pulse crop with 11-12 million tonnes produced annually; field peas come in second with approximately 10 million tonnes. Australia's combined production of these crops is 1-1.3 million tonnes or approximately 5 per cent.

There are two major types of chickpeas grown in Australia. The Desi chick pea is the predominant variety grown in NSW and Qld, while Kabuli is more prominent in South Australia and Victoria. The majority of the Desi chick pea crop is exported, and in terms of world trade Australia is a major player.

The major export markets for chickpeas are India and Pakistan, who between them import on average 1-1.5 million tonnes of chickpeas each year. In these markets field peas can also be used as a substitute to chickpeas. India imports 1.5-2.0 million tonnes of field peas each year.

Given this dynamic Australian farm gate prices are heavily influenced by global production volatility, international trade values into each of the major destinations, and price relativities between substitute products.

For example, when India has a poor monsoon, Australian chickpea values tend to find support as demand for imported product increases providing flow on support to the Australian market. However in years when Indian production is in surplus and import requirements are small, Australian product can become discounted as Australia seeks alternate export destinations for local production.

Mill t

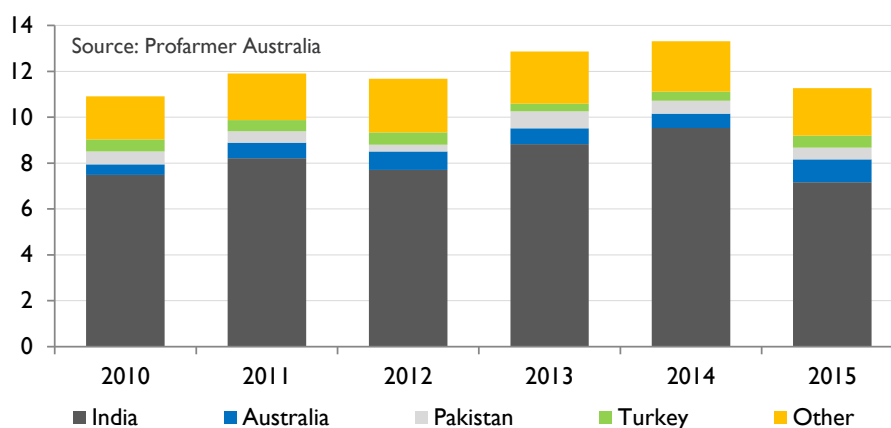


Figure 22: World chickpea production. (Source: Profarmer Australia)

Some of the global influences on Australian chick pea pricing are listed below:

1. Indian domestic Rabi season (Harvest April/May) pulse production. Any negative influences will increase the need for imports of either chickpea or field pea.
2. The world price of field pea. Field pea is purchased as a substitute pulse when the chickpea price is high.
3. Timing of festivals in importing countries. Ramadan is the most important festival which occurs in the ninth month of the Islamic calendar and goes for 29 days. Ramadan occurs around June then May for the next few years then will get closer to the end of the Australian harvest. This is favourable for supplying the Ramadan market post-harvest.

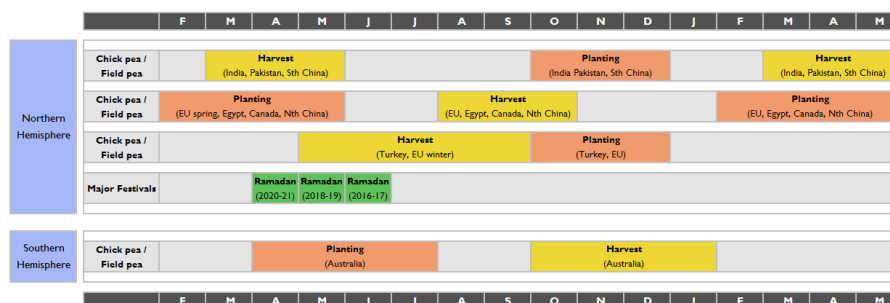
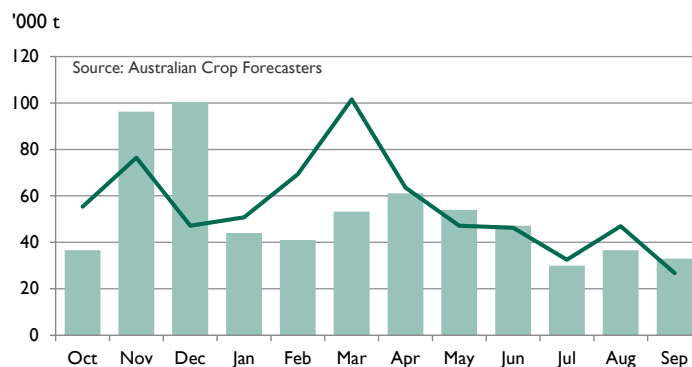


Figure 23: Global field pea and chickpea crop calendar.

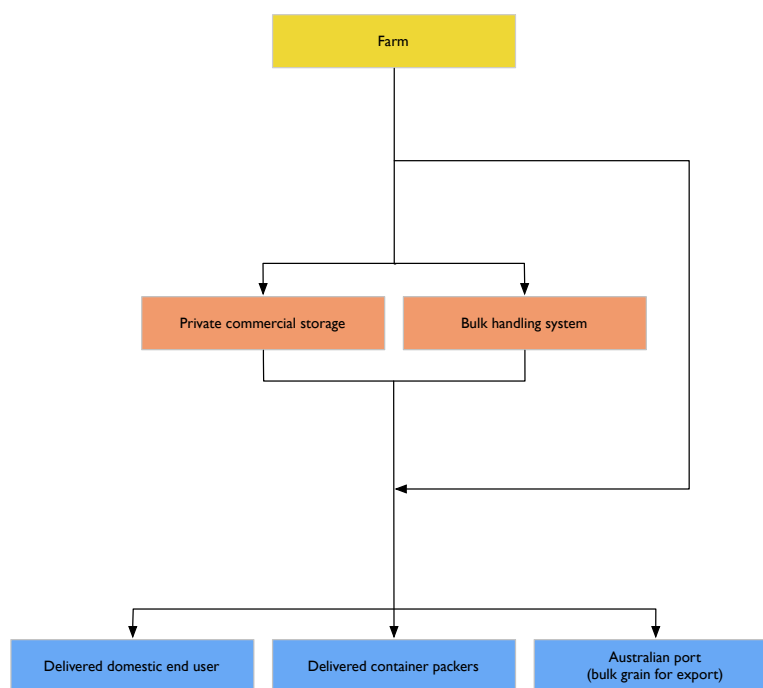


Note to figure:
Australian chick pea export pace is typically strongest shortly after our harvest as buyers seek to move crop ahead of the Indian harvest.

Figure 24: Monthly chickpea export pace. (Source. Australian Crop Forecasters)

15.2.2 Ensuring market access for Northern chickpeas

The primary market for the northern desi chick pea crop is exports for human consumption. Of these exports approximately 30-40 per cent is exported in bulk and the remaining 60-70 per cent is exported in containers. The container or 'delivered' market can at times offer premiums to the bulk export market.



Note to figure:
Storage decisions should be determined by assessing market access. The large majority of northern canola is exported in bulk. Hence the bulk handling system should provide efficiencies to market. NSW also services a relatively large domestic market and private commercial and on-farm storage should provide a reasonable method to access these markets.

 **Profarmer**
AUSTRALIA

Figure 25: Australian supply chain flow. (Source. Profarmer Australia)

15.2.3 Executing tonnes into cash for Northern chickpeas

Given the volatile nature of chick pea pricing, setting a target price using the principles outlined in section 1.2.2 minimises the risk of taking a non-profitable price or holding out for an unrealistically high price that may not occur. Pricing deciles for chickpeas are provided as a guide.

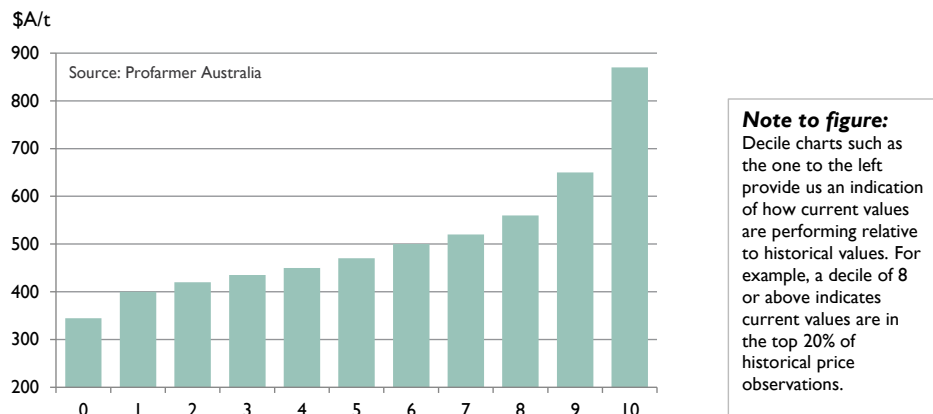


Figure 26: Brisbane chickpea decile. (Source. Profarmer Australia)

Selling options for chickpeas include:

1. Store on farm then sell: Most common occurrence. Chickpeas are relatively safe to store and require less maintenance than cereal grains. Must consider cost of storage in target pricing.
2. Warehouse then sell: this provides flexibility for sales if on farm storage is not available. Must consider warehousing costs in cost of production and target prices
3. Cash sale at harvest: least preferred option as buyer demand does not always coincide with harvest.

There are some forward price mechanisms available for chickpeas including area contracts as well as a traditional fixed volume forward contract. Whilst area based contracts tend to price at a discount to fixed volume contracts, this discount needs to be weighed up against the level of production risk inherent in each contract.

As with all sales, counterparty risk and understanding contract of sale is essential. Counterparty risk considerations is especially important for pulse marketing as there is often a higher risk of contract default in international pulse markets than for canola or cereals due to the markets they are traded into and lack of appropriate price risk tools (such as future). This can place extra risk on Australian based traders endeavouring to find homes for your product.

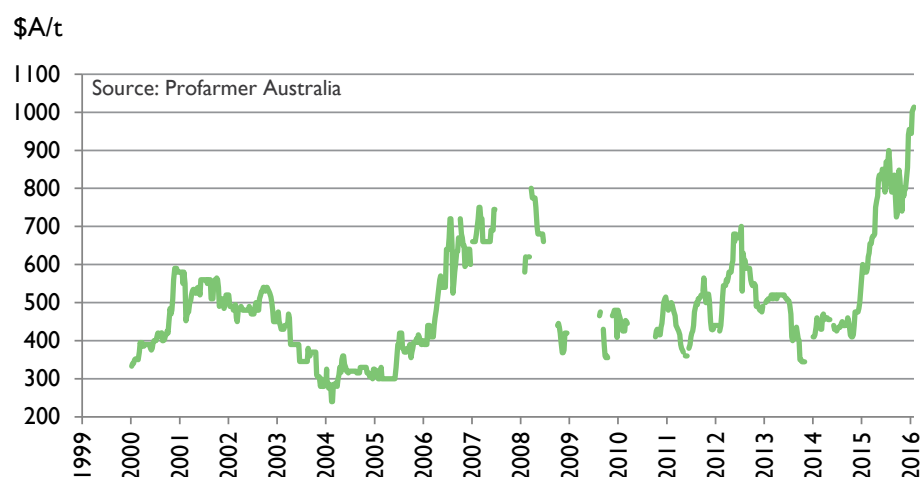


Figure 27: Brisbane chickpeas. (Source. Profarmer Australia)