

Mobile Devices - The Next Step in PA Adoption



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Farming Apps

Following are 62 farming apps on the market at the moment. This number is growing daily. These are my thoughts on each app. As with all things people have a difference of opinion depending on your expectations, experience and requirements. The most expensive and comprehensive apps for farming at the moment are the paddock recording apps.

When reviewing these types of apps ensure they have the following attributes;

- Ability to export data if you want to move programs
- Ability to import data, if you are moving over from another program or have bulk info (eg soil test data)
- Good support
- Ability to copy scenarios and/or plans to all paddocks, so you don't have to enter data individually for each paddock
- User friendly and readable reports that add value to your business and assist in planning
- Ability to sync data with a main computer and others (e.g. Agronomist)

Although there are a number of players in this market it appears that no one is offering a 'middle of the range' price. That is, it goes from cheap and simple to expensive and complicated.

Mapping Apps

The ability to use the GPS in your mobile device to view maps and geo-locate points will be very powerful in the future. There are a number of these types of apps out there and plenty more to come. The only app I have found that comes close to performing all these tasks and is relatively easy to use is GIS Kit (upgrade – GIS Pro). This app allows you to create points, line and polygons, apply attributes and export as shape files. It also allows you to import shape, kml, kmz and GPX files and edit these out in the field. It doesn't replace the desktop software i.e. AFS, Apex etc, but it will provide valuable layers that assist in ground truthing prescription maps.

Name	Devices	Cost	Category	Internet Description	My Review	Rating
Fast Scan	Apple	\$1.99	Admin	FastScan Label Reader is designed specifically to enable users to read the new "FastScan" labels on their AgChem products and save the information they provide, using either their iPhone or iPad. FastScan labels provide instant access to product usage data, MSDS information through the use of QR Codes. The FastScan initiative for AgChem labelling is still relatively new, so head to www.fastscanlabels.com.au to view a list of manufacturers.	Relatively new app so unable to explore how many suppliers have registered their MSDs. Will be a good and relatively cheap app if suppliers get on board.	
Notability	Apple	\$0.99	Admin	Notability is optimised for the new iPad! It integrates handwriting, PDF annotation, typing, recording, and organising so you can take notes. Capture ideas, share insights, and present information in one place on iPad.	Don't find this app particularly intuitive. It takes a while to work out how to use it. Can see it being somewhat useful when drawing diagrams or possibly if you take a photo during a presentation you could add your own notes on the side.	
Document to Go	Apple & Android	\$10.49	Admin	Access your Microsoft Office® files at any time; <ul style="list-style-type: none"> • VIEW/EDIT/CREATE Word and Excel files (Office 2007/2008/2010). • VIEW PowerPoint, PDF, iWork, Text, .RTF, and more! • iPad/iPhone 4/iOS 4: Send and receive attached supported documents using the built-in Mail app. • FREE desktop application with your purchase! Compatible on Win and Mac and allows you 2-way file sync with a WIFI connection. 	Excellent app. A must have if you want to edit or create word/excel documents On-the-go and then have it available on your desktop at a later date.	

CloudOn	Apple	Free	Admin	<p>CloudOn brings Microsoft Office® to your iPad and links it to your Box, Dropbox and Google Drive accounts.</p> <p>If that isn't enough, the built-in Adobe Reader and File Viewer lets you open and view virtually any file type, including PDF, JPG, PNG, GIF, etc. And, because we know your work isn't always just for you, you can easily email files to your contacts directly from the workspace.</p>	<p>Great free app to view and edit your Microsoft documents. Very similar layout to Microsoft programs so great for formatting. Its only downfall is that it's a bit slow/delayed, so I would stick to using Documents to Go for writing notes, but this one for formatting etc.</p>	
Dropbox	Apple & Android	Free (for 2Gb of storage)	Admin	<p>Dropbox is a file hosting service that offers cloud storage and file synchronisation of up to 2GB for free.</p>	<p>Another must have! Allows you to not only access files on your desktop but also gives you the option to open other file types. For example it gives you the option to open a kml file in Google Earth, whereas if you only had Google Earth you can't open files in the app.</p>	
CamScanner & CamCard	Apple	Free	Admin	<p>CamScanner -</p> <ul style="list-style-type: none"> • CamScanner turns your phone into a scanner and a fax machine. • Simply take a picture of any paper documents such as receipts, whiteboards, notes, agreement and so forth, and CamScanner can auto-crop image, enhance image quality and create an industry standard PDF file. • Documents can be shared via email, faxed or printed via internet, uploaded to cloud, and managed by tagging or searching. <p>Cam Card -</p> <ul style="list-style-type: none"> • CamCard is a professional business card reader and business card scanner. • Simply take a picture of a business card, CamCard recognises the business card and saves contact information in Card Holder or your Address Book. 	<p>Handy app to have; makes storing numbers extremely easy. The scanner would be especially handy if your phone is connected to a wi fi printer. However, it would be easy enough to save the pdf to Dropbox and then print from desktop.</p>	

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Summit Fertz	Apple	Free	Converter/Calculator	Quickly and easily determine the Nitrogen-Product quantities you need with Summit Fertilizer's Nitrogen Calculator. Perfect for farmers out in the field, an active internet/network connection is not needed for use – the app handles all calculations internally.	Not a bad calculator for Summit fertiliser clients to double check their rates and products out in the field.	
Tank Mix - Precision Technologies	Apple & Android	Free	Converter/Calculator	Is designed to assist agricultural applicators and farmers with the proper tank mixing sequence and to conveniently maintain accurate spray logs for easy record keeping.	Excellent for people new to the boomspray. Does have the capability to keep a spray log, but can't see any functionality for exporting records.	
SpraySelect - TeeJet Technologies Hardi Nozzles also do similar app	Apple & Android	Free	Converter/Calculator	SpraySelect allows you to choose the proper tip for your application. Just enter speed, spacing and your target rate, select your droplet size category and a list of tip recommendations is provided. US and Metric units are supported.	Handy app. Also good for people new to the boomspray.	
NPK (Fert cost calc)	Apple	Free	Converter/Calculator	Estimates the value of Nitrogen per unit of Phosphorus source, along with the cost per unit of 'P' with or without the Nitrogen value. All based on your entered cost per bulk.	This app is designed for the States, so it is limited with the product it offers. Nevertheless could be handy when putting your fertiliser order in.	
N Price	Apple	Free	Converter/Calculator	This app allows you to compare the price of various forms of nitrogen fertiliser products in terms of their price per pound of Nitrogen allowing for "apples to apples" comparisons. The app then lets you add the price to a list of prices on a separate screen so the cheapest source of Nitrogen can be identified.	Similar to the NPK app, but just for 'N'. However, it has the added benefit of the user being able to add products and create lists.	

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<p>TankMix, Created by DuPoint - (Syngenta and Calc Spray are similar apps)</p>	<p>Apple</p>	<p>Free</p>	<p>Converter/Calculator</p>	<p>Allows you to easily calculate;</p> <ul style="list-style-type: none"> • The amount of product you need to treat a specific field area. • The amount of product you need to apply to a specific tank size; • The amount of water you'll need to treat a specific field area. <p>AND</p> <ul style="list-style-type: none"> • The amount of product you need to get the desired volume to volume ratio 	<p>Easy to use and free. Believe it would be especially handy if someone new is operating the boomspray.</p>	
<p>Nutrient Removal</p>	<p>Apple</p>	<p>Free</p>	<p>Converter/Calculator</p>	<p>Allows users to choose a crop to view the amount of nutrients removed from the field at harvest. A US application that includes broadacre and horticultural crops.</p>	<p>Fairly pointless app. Most information can be looked up on the web fairly easily. It is likely not something you would need to lookup on a regular basis.</p>	
<p>RAGT Calculator</p>	<p>Apple</p>	<p>Free</p>	<p>Converter/Calculator</p>	<p>Seed rate calculator for all crops. Quickly calculate your seed rate in seeds/m², kg/ha and kg/acre.</p>	<p>Handy calculator for double-checking their seed rates.</p>	
<p>Inoculant Calculator – Becker Underwood</p>	<p>Apple</p>	<p>Free</p>	<p>Converter/Calculator</p>	<p>The Becker Underwood Inoculant Calculator identifies the right strain of inoculant for each legume and calculates exact ordering requirements by the bag or carton for three methods of treatment: seed treatment, granular in furrow and furrow soil injection</p>	<p>Another convenient calculator for double-checking inoculant requirements.</p>	
<p>EvoCrop</p>	<p>Apple</p>	<p>\$949.99</p>	<p>Record Keeping – Broadacre</p>	<p>The EvoCrop app allows for real time records management and an instant complete snapshot of operations on a farm. It is simple to use and the app can be purchased directly from the Apple App store, or packages are available from Rustic Evolutions. Includes supply and setup, 24 hour support, hardcopy records storage and provision of any additional tailored business requirements you may have.</p>	<p>An okay app. I like that it is a one off cost, but worry that if they don't receive any support for it given the number of players in the market it might not grow with client demands. However, it does have the ability to export the data so if you did change your mind that option is available. The only other issue I have is that each paddocks data has to be entered individually, a fairly time consuming exercise if you keep detailed records or have quite a few paddocks.</p>	

<p>Farm At Hand</p>	<p>Apple</p>	<p>Free</p>	<p>Record Keeping – Broadacre</p>	<p>Allows you to keeps details of; Field List – Keep a detailed and current list of fields.</p> <p>Calendar – Add and review farm activity for a specific date, most recent activities and all activity for that date.</p> <p>Commodity Storage – the Virtual Bin Yard. Equipment – a complete equipment list, which can be updated and reviewed at any time. Commodity Contracts – enter, track and update all commodity contracts. Commodity Status – provides information based on each commodity entered: amount in storage, contracted amount, and the amount still available to market. Commodity Delivery – enter deliveries and link up to any contract that has been entered.</p>	<p>A little 'clunky' but not a bad free tool for keeping track of your on-farm storage and grain contracts.</p>	
<p>AgWorld</p>	<p>Apple and Android</p>	<p>\$600++ (annual subs)</p>	<p>Record Keeping - Broadacre</p>	<p>Agworld is a powerful cloud based data management system for the Agriculture industry featuring farm planning, document management, data capture tools, geo-spatial mapping, an industry information library, communications tools and much more.</p> <p>The online/offline iPad application, in conjunction with the cloud hosted web system, is a way to capture, manage and leverage your Agricultural business data while in the field.</p> <p>Developed from the ground up and an Australian first it is a true cloud synchronised, offline capable iPad application that gives you access to record and communicate the information you need while in the field.</p>	<p>This is a very good app that has a lot of potential. However, I believe it has been sold on the basis of the functionality to come - rather than what it can do right now. So there are some unhappy users out there. If you are considering buying Agworld remember it is primarily a data entry app that costs \$618 per year and a one off of \$109 for the iPad app. Furthermore remember that with any new technology you need to put aside the time to learn how to use it. You won't learn how to use this app in 10 minutes. Most likely you will need to set aside 2-3 days to set it up properly and work out a data entry system that will suit your business.</p>	

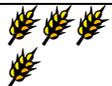
farmGRAZE	Android	Free	Record Keeping - Livestock	Grass is the cheapest feed for your livestock. Measure and manage your grazing. Measure, record and manage your grazing platform with farmGRAZE for Android. Use this app to save money on unnecessary feed and fertiliser and save time on your farm.	Designed for the USA. Not really a useful app for an Australian farmer unless they really love Angus cattle, then it might be interesting.	
iHerd	Apple	Free	Record Keeping - Livestock	This easy to use iPhone app utilises the power of synchronisation between devices, streamlining the transfer of crucial property details between managers and automatically updating that information onto the server. Saving you approximately 12 hours of labour per manager, per month, iHerd sets the standard for cattle management software.	Very simple app. However, the description says it can do a lot more than I was able to work out! Worth a look at if you require a record keeper for your cattle.	 
Livestock Manager	Android	Free	Record Keeping - Livestock	Is for managing farm livestock data, full input and maintenance of flock book, medicine book and movement records.	Once again a very simple app for livestock recording. Not ideal for long term record keeping as reviews suggest there is difficulty in getting your records out of the app and if it crashes or you get a new phone you start from scratch. Would recommend having a play with the export function before entering too many records.	
FarmLogic or FarmPAD	Android	Free	Record Keeping - Broadacre	Use FarmPAD to enter farm records, equipment service logs, spray records and take notes or pictures. Draw your field boundaries with GPS or by hand. Sync to your web account where you can print reports, review history and draw and print field maps. All your precision ag needs in one tool	This app is designed for the USA. Sounds similar to Agworld, but costs \$2,200 to get started.	
MyTraps	Apple	Free	Record Keeping Broadacre	A platform to help growers reduce pesticide use. The MyTraps mobile app provides a way for growers to record pest data directly from the field.	Only useful if you set traps and even then not sure why you wouldn't just set up a spreadsheet.	

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Farm Contractor	Apple	\$10.49	Record Keeping – Industry	Is designed to help agricultural contractors record client and job details. It allows contractors to record full details of their procedures and email them back to the home or office to be invoiced. With more than 25 job types including Baling, Equipment Hire, Harvesting, Mulching, Mustering, Shearing, Spraying and Windrowing, this app allows you to throw away your pen and paper and reach for your iPhone.	Simple and cheap app for farm contractors. Most likely better for simple operations (e.g. shearing). Would most likely invest in a more expensive and detailed app to use for contract spraying given the potential liability if good records are not kept.	
Farm Manager	Apple	\$17.99	Record Keeping - Broadacre	Is an app designed by a farmer for farmers. It allows farmers to record cropping, livestock and machinery procedures, and access this information with ease	Simple and cheap app for data entry. Keeps very basic records and is not ideal for reporting or sharing information. Rather it replaces a notebook and you still need to enter the data into your main records. This may be improved in future versions.	
Agro	Apple	\$1,049.99 also comes in free lite version	Record Keeping - Industry	Allows Agronomists to create and email paddock/field inspection reports while on the farm and have it distributed there and then.	Excellent app for Agronomists. However, it is quite expensive at \$1,000+. Doesn't have the added advantage of syncing with farmers records (i.e. like AgWorld). May be better using a program like this if clients are using tablet devices. However, with 5 star reviews is worth investigating if you are in the market, plus has the benefit of a one-off cost.	
Spray	Apple	\$549.99 also comes in free lite version	Record Keeping - Industry	Whether you are the owner operator, contractor or a large corporation Spray App will streamline information from the paddock or field back to the office instantly.	Excellent app for spray contractors who need to keep detailed records. More expensive than other spray log apps on the market but is most likely worth it, especially in the scenario where legal action is taken against you.	

Back Paddock Advisor	Apple	Free app but requires subscription	Record Keeping - Industry	Agricultural spray recommendation generator for Back Paddock Adviser software. A tool for agricultural professionals that provides an easy means of creating “in-field” spray recommendations for farmers.	Good app for Agronomists that already use Back Paddock. There have been reports that Back Paddock advisor (app or desktop software) is not very intuitive and can be difficult to use. I know of a few Agros that have been using Back Paddock for years and have moved to a different program now that there is variety in the market. However, it does seem to have caught up with the rest of the pack and reviews suggest it is a lot more user friendly, with new functionality such as syncing and mapping. Definitely worth a revisit.	
F-Track	Apple	Free app but requires subscription	Record Keeping - Livestock	On-the-go farm management app that lets multiple users record and access all their farm information live. Includes crop, livestock, paddock, silo, fuel, chemical and task managers. Has web interface.	Simple farm data recording app. Cheaper than others on the market but doesn't seem as intuitive or keep as detailed records, which of course will become increasingly important for biosecurity and market reasons. Does, however, have the ability to share information with other users.	
Rain Log		Free or \$1.99	Record Keeping	If you have a rain gauge then this is the app for you! Rainfall is so simple to record. Just double tap on the calendar date, enter your rainfall on the pop up screen, press save and you're done.	Handy app for recording rainfall and graphs it as you go. Also has the ability to export data to your main computer. Of course you could most likely do the same thing in an excel spreadsheet that sits in Documents to Go.	

<p>Pocket PAM</p>	<p>Apple & Android</p>	<p>Free</p>	<p>Record Keeping – Whole Farm</p>	<p>Production recording software used by farmers, Department of Agriculture and CSIRO research stations and Agricultural Colleges across Australia. PAM QA Plus is suitable for all "broadacre" farming - all crops from cotton to canola, beans to barley. PAM QA Plus is suitable for all livestock operations and types including pastoralists. PAM is a complete Primary Production Recording System. Farmers have a tool that will store and analyse all their paddock records simply and efficiently.</p>	<p>The software has not changed that much with the introduction of the app. However, the app will allow data entry out in the field that will reduce the time spent in the office and improve the timeliness and accuracy of the data, given that Farmers can do it on the spot. It is one of the most comprehensive farmer data entry software packages out there for cropping and livestock at the moment, but not 100% user friendly. If you are looking for an intuitive system for basic record keeping this is the app for you. If you are already familiar with PAM and have records in PAM then this will be a very handy addition to the service they offer.</p>	
<p>Wireless Farmer (Apple)</p>	<p>Apple</p>	<p>Free app but requires subscription</p>	<p>Record Keeping - Broadacre</p>	<p>Wireless Farmer uses smart phones to collect everyday field data as it happens. With simple touch screen entries and the latest technology all data is updated to your computer records instantly. It is preloaded with most chemical and fertiliser information. This allows even the most technologically challenged field staff, not experienced in computer use, to become proficient operators after a few hours of training. As well as storing information, Wireless Farmer enables traceability and report generation at the click of a button.</p>	<p>Looks like a handy and comprehensive app but not sure how much it costs as website doesn't display prices. Reviews indicate that it is perfect for the QA conscious farmer who is looking for traceability. If you're in the market for a farm recording app this will be one to look into further.</p>	
<p>Muddy Boots - CropWalker</p>	<p>Apple & Android (Mobile App)</p>	<p>Subscription</p>	<p>Record Keeping - Broadacre</p>	<p>From seed procurement and assessment to the planning and application of pesticides and nutrients through to harvest records, produce storage and despatch. At every stage, information can be captured to provide full crop traceability and help ensure compliance to relevant assurance standards.</p>	<p>Very comprehensive farm recording software that also includes mapping and the ability to draw boundaries and overlay layers. Definitely one to look at if you are looking for comprehensive farm recording software.</p>	

iCropTrak	Apple	\$75 per month subscription	Record Keeping - Broad acre	<p>iCropTrak is an iPad mobile farm management app with a dedicated Cloud server to support collaboration with your whole team.</p> <ul style="list-style-type: none"> •Develop Farm Plans. •Schedule work orders, soil samples, field scout samples and more. •Track crops, soil, work orders, costs, equipment, fields and more. •Analyse the data to run your farm more efficiently and profitably. •Report the results by HTML Dashboard, PDF, email, Printer, CSV/XLS, FTP and more 	<p>I really like this app. Has been designed for all sectors of the industry and so has the ability to tailor the app to what you need. The app has been designed by the same people as GIS Roam and Precision Earth, so has great mapping functionality plus record keeping. Although quite expensive it is probably one of the best record keeping/mapping apps I have seen. Designed in the USA but given its structure is very easy to tailor to Australian systems.</p>	
ProductionWise, FutureWise & SprayWise	Not an app yet just web based	Range of prices	Record Keeping – Broad acre	<p>ProductionWise - is an innovative crop management tool for rural landholders. FutureWise - is an innovative online climate forecasting tool developed to provide information about the Australian climate on a national and regional scale. SprayWise Decisions- supported by Nufarm, is an innovative online service that helps rural landholders and contractors to better plan and match the timing of chemical applications to prevailing local weather conditions.</p>	<p>These are not apps just yet but are web-based programs. I thought it still worth a look as you can always log into the website while out in the paddock, as long as you have service. Overall apart from the limitation of requiring internet access, very handy programs with some innovative addition. Definitely worth a look.</p>	
JDLink (Apple):	Apple & Android	Free	Machinery Tracker	<p>Get directions to your machines wherever you are? Receive machine alerts right after they appear? The JDLink mobile application takes you to the next level in machine optimisation and logistics.</p>	<p>First app of its kind. Available only on later model John Deere tractors. Will be a space to watch as more companies come on board and allow tracking of their machinery. Endless opportunities to improve efficiency with this type of technology.</p>	
AgDNA - Coming Soon	Apple	Free	Machinery Tracker	<p>The world's first FREE mobile GPS app to track all your in-field farming activities.</p>	<p>Coming Soon</p>	

<p>GIS Kit & Pro</p>	<p>Apple</p>	<p>\$99.99 or \$299</p>	<p>Mapping</p>	<p>The 'Kit' version of this software is intended to allow individuals to collect accurate and sophisticated field data without being tied to an expensive server or IT unit. Anyone can easily create their own feature classes and datasets and use them to gather and interpret useful data in the field. The 'Pro' version of this software gives you all the advantages of the 'Kit' version but offers more collaborative options such as SHP file export and feature class dataset sharing and WMS support. It also supports Raster data.</p>	<p>The most comprehensive mapping app I have come across. Allows you to create prescription maps, draw boundaries, collect soil test point and edit shape files and more. The import/export functionality is very easy and done through Dropbox. If you are planning to use these layers in your desktop program (eg AFS) then you will need to upgrade to the pro version which allows shape file exports.</p>	
<p>AGRIPlot</p>	<p>Apple</p>	<p>99c</p>	<p>Mapping</p>	<p>AGRIplot allows you to plot any area on a map. Walk around your property and add a landmark point, or drag and drop pins anywhere on the map. AGRIplot will automatically calculate the area enclosed by the points and provide the distances between each point. Interest points allow you to identify additional features for your plot. You can take pictures associated with each landmark or interest point for a visual representation. Share your plot with the option to email a PDF version of the plot information.</p>	<p>Very clunky app with limited functionality and export function. Much prefer Map Measure Pro in terms of ease of use and import/export functions.</p>	
<p>Connected Farm - Trimble</p>	<p>Apple & Android</p>	<p>Free</p>	<p>Mapping</p>	<p>Use the free Connected Farm™ app on your smart phone to map field boundaries, flag points of interest and enter scouting information. Scouting attributes include an extensive list of weeds, insects and diseases, and allows you to log the severity of a problem, crop conditions, and more. Also capture photos of pests and integrate them into your scouting notes. All data is sent via cell or Wi-Fi connection to Connected Farm where you can view and analyse data online.</p>	<p>Not a bad free app if you are out in the fields and can walk the boundaries or drop a pin to mark an area of significance (eg insect damage). However, you cannot create boundaries without walking them and there is limited functionality for exporting. Once again I would invest in an app like Map Measure Pro for this type of functionality.</p>	

LandView	Apple	Subscription and additional fees for products	Mapping	Air photo image of your farm with field boundaries mapped for you; management information at your finger tips; crop planning and budgeting by field; field acreage measurement; precision farming solutions; Identity preservation systems; farm benchmark comparisons; agribusiness management summaries.	This looks to be a good app, but has been designed for the USA and reads like most of the features are available at an extra cost and with assistance from consultants. Thus likely it is not very useful to Australian Farmers.	
GISRoam	Apple	Free - lite version, \$150 for Pro version	Mapping	GISRoam is an easy to use and powerful mobile GIS app that enables Shapefile viewing, editing, colourisation, and collection over user loaded imagery.	Only program I have found so far that allows you to import shape files and keep colours/zones. Need to upgrade to the pro version to collect sample, mark points and take photos. The only problem is that it is designed for you to load imagery and so you cannot create data points from the office, you need to be out in the field selecting points in GPS mode. Saying that you can do it now in OS6 because of different licensing restrictions.	
Map Measure Pro	Apple	\$35.99	Mapping	<ul style="list-style-type: none"> • Uses Google Earth as its platform and allows you to accurately and easily measure distances and areas, from the convenience of your office or driving around the paddock. • Save the file to Dropbox or iCloud in a number of different formats (PDF, CSV,KML).• Very easy to use with clear instructions. 	Export function is really good but crashes when trying to import files. Only has the ability to measure between points rather than just record one point (i.e. for soil sampling). However, very good for measuring distances and closing off polygons.	
AndMeasure	Android	Free	Mapping	AndMeasure - measure everything on a map! The AndMeasure tools allows you to measure distances and calculate areas between points on a map. The tool has virtually unlimited applications. Use it PROFESSIONALLY for measuring distances and areas in landscaping, lawn care, water line measuring, paving and fencing. Use it in farming and forestry to measure your fields and forests. Realtors can use it for showing clients distances to certain landmarks.	Very simple free mapping app for Android users. No import/export functionality but if you are just trying to measure the distance between two points or calculate the area than this will do the job.	

Google Earth	Apple & Android	Free	Mapping	Search for cities, places, and businesses. Browse layers including roads, borders, places, photos and more. Visit the Earth Gallery to find maps. With a quick swipe on the tab at the bottom of the screen, you can bring up a selection of virtual tours from around the globe.	Using this app without having Dropbox is not that valuable. However, when using in conjunction with Dropbox you have the ability to open kml files and use for ground truthing. For example if you export a variable rate map in kml format you can view it in Google Earth while out in the paddock. However, this is just a viewing platform. If you want to add points or notes you need to move to a more advanced app.	
PrecisionEarth	Apple	\$159	Mapping – Industry	PrecisionEarth is an iOS based application for quickly collecting field boundaries and GPS located grid, zone/region, and field soil samples overlaid on rasters and in the field on iPads and iPhones. Use to collect repeatable soil sample information. Take your digital information into the field in your hand and see firsthand the what, why and where.	Found this app really difficult to use. Is best suited to an agronomist or consultant who takes a lot of soil samples rather than the average farmer. Felt that there are much more user friendly apps that achieve the same result for a lower price.	
ArcGIS	Apple	Yearly subscription	Mapping	ArcGIS is a great way to discover and use maps. Maps come to life in ArcGIS. Tap on the map or use your current location and discover information about what you see. You can query the map, search and find interesting information, measure distances and areas of interest and share maps with others.	Not a bad mapping app that allows you to import your own shapefiles. Negatives are that it uses its own aerial imagery which is not as good as Google and more difficult to make out soil types etc. I believe there is a simpler/cheaper app that allows the same functionality.	
AgWeb	Apple	Free	News	Get the latest agribusiness news and advice with Agweb News. Read ag management news, farm business blogs and articles from one trusted source AGWEB.com.	Designed for the USA Nevertheless you can still find some interesting articles on global markets and the current issues facing American farmers.	
PestGenie	Apple	\$210 annual subscription	On-the-go information	PestGenie Mobile provides you with a great way to access your Pest Genie Plus account. The application is a condensed version of the Pest Genie Plus website and provides detailed information about pesticides and animal health products including the latest labels, MSDS and a range of product support material.	Believe this app is too expensive for what it is. Most MSDS are available on the net. Can see this app being much more useful for consultants than farmers.	

<p>CSBP Insights</p>	<p>Apple</p>	<p>Free</p>	<p>On-the-go information</p>	<p>CSBP Insights is your reference guide for global market updates, local CSBP news and weather. Insights include:</p> <ul style="list-style-type: none"> - News updates from your local CSBP team. - Daily weather updates. - 7 day weather forecasting including ‘chance of rain’. - Global updates on Nitrogen, Phosphate and Potash. 	<p>Not a 'must have' app given that most people already have weather apps to keep them up to date. The global updates on N, P, and K are handy to have at your fingertips.</p>	
<p>CropMate Variety Chooser</p>	<p>Apple</p>	<p>Free</p>	<p>On-the-go information</p>	<p>CropMate Variety Chooser is a decision tool for farmers, to help choose varieties of barley, canola, chickpea, faba bean, field pea, lupin, oat, triticale and wheat. Choose your variety characteristics and desired disease resistance levels, see comparative yield trials for your region to narrow down your choices and see details of each variety.</p>	<p>Designed by NSW DPI so more relevant to growers in NSW. Would be extra handy if these were created for each state. Much easier to navigate around than the variety sowing guides released each year.</p>	
<p>Farm Minder</p>	<p>Apple & Android</p>	<p>\$210, \$395 & \$595 (annual subs)</p>	<p>On-the-go information</p>	<p>Farm Minder® Light - Entry-level subscription with access to Labels and MSDS documents, tools to locate the most suitable pesticide and animal health solutions for any pest, crop or situation and to create a detailed chemical register of your stored chemicals - \$210 per annum.</p> <p>Farm Minder/Shed Manager - In addition to the functionality of the Farm Minder® Light, this subscription option provides everything necessary for complete management of stored chemicals on one farm for one or more chemical storage areas - \$395 per annum.</p> <p>Farm Minder Ultimate - This is a comprehensive farm management, chemical compliance and pesticide application recording solution that includes the functionality of the Farm Minder® Shed Manager subscription - \$595 per annum.</p>	<p>Too expensive for what it is, I think. If you were extremely QA focussed and didn't already use an Agronomist it might be a very handy tool.</p>	

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<p>Agrowdata</p>	<p>Apple</p>	<p>\$49.95 (annual subs)</p>	<p>On-the-go information</p>	<p>Agrowdata not only provides you with current and historical commodity pricing for a range of commodities, it also includes:</p> <ul style="list-style-type: none"> •Graphing of historical and futures prices •Graphing commodity prices against each other over the same period allowing you to identify trends and correlations •Handy and relevant conversion calculators •Product specifications, futures and swaps contract specifications •Recent agricultural related news 	<p>Handy app to have for a guide to pricing for not only grains but also fertiliser and livestock. I like the fact that you can easily graph commodities and compare. Grain prices are supplied by AWB so not the right tool if you are looking for the best price for the day, but rather a feel for what prices are doing. One downside is that not all commodities can be graphed using Kwinana prices and hence why this app would be used as a guide only.</p>	
<p>Farmsave</p>	<p>Apple</p>	<p>Free</p>	<p>On-the-go information</p>	<p>Farmsave has established a national network of agchem suppliers, ranging from small retailers through to large-scale manufacturers. Every enquiry that Farmsave receives is distributed to this network, so that they can offer their cheapest price in an effort to secure the transaction. Once they have received all quotes, they contact you to relay the cheapest one (inclusive of delivery to your nearest transport depot), and arrange payment (normally via EFT or credit card).</p>	<p>A price discovery tool for chemicals. Love the idea of this app. Easy to use and even if you don't use it to purchase your chemical through, it costs nothing to order a quote and see if your local suppliers are on the money.</p>	
<p>DTN/The Progressive Farmer: Agriculture News</p>	<p>Apple</p>	<p>Free</p>	<p>On-the-go information</p>	<p>Content app specifically designed for the iPad. This app meets your information needs with access to agriculture news, commodity market data and industry-specific weather intelligence.</p>	<p>Excellent app for keeping you up-to-date with world agricultural news. Some options not available because it has been designed for the US but nevertheless a good news app to have on the phone/tablet.</p>	
<p>CBH Mobile</p>	<p>Mobile site - Apple or Android</p>	<p>Free</p>	<p>On-the-go information</p>	<p>CBH Mobile will provide you with access to:</p> <ul style="list-style-type: none"> • Load information shortly after it is delivered to the bin • Receival site segregations • Live CBH Grain prices • Key CBH contact details and locations 	<p>Looks to be a very handy app. Only qualm is that it is not an app as such, rather a Mobile site app so if you don't have phone service it's fairly useless.</p>	

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GRDC Weed ID	Apple & Android	Free	On-the-go information	The apps are free to download and feature an ability to identify day to day weeds, pests (coming soon) and other useful identification guides. Also offers a suite of useful and helpful resources that will assist growers to access the latest Research, Development and Extension information.	Is a great basic tool. Better for farmers that have an extensive knowledge already. Not as easy to use for the younger generation if they do not have an existing knowledge of the common weeds. An image analysis function has been suggested as the next step.	
Angus Australia	Apple	Free	On-the-go information	The Angus Society of Australia supports over 2700 members located throughout Australia. Their app delivers info on an animal's genetic information, Angus member details and is a direct link to the Angus Australia web site.	Interesting app for Angus breeders.	
Soil Crop Agron Pubs	Apple	Free - But you have to pay for journals	On-the-go information	Get the best knowledge with MySci Pubs app in the fields of agronomy, crop and soil sciences. Search thousands of peer-reviewed journal articles. Access full text right on your device. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America.	Really just a platform to find the journals. You are unable to even view abstracts and still have to purchase them.	
Crop Disease (Victoria DPI)	Apple & Android	Free	On-the-go information	The DPI Crop Disease application provides quick access to current crop disease resistance ratings, in the paddock. Compare the resistance ratings of a number of crop varieties for different crop diseases. Compare disease symptoms with photographs. Explore detailed information on a particular crop variety. Map diseases and share photographs with friends.	Good simple app. Obviously designed for Victoria but has most varieties.	
Learning Plant Language	Apple	\$32.99	On-the-go information	It is for farmers, consultants and students of agriculture. It shows you clear photos of what nutrient deficiencies and toxicities look like; currently for cereals and canola with some on sunflowers	Good app but probably too expensive for what it is. Will be very handy for farmers/advisors out in the paddock trying to determine nutrient deficiencies. Will also be very handy for people learning about nutrition and deficiencies.	

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Weather Apps	Apple & Android		On-the-go information	A number of them around; Weatherzone, Elders and OZ Weather are all very similar and have favourable reports from farmers		
APVMA	Apple & Android	Free	On-the-go information	APVMA puts the database of Australian registered agricultural and veterinary chemical products in your hand with this free resource. Search, browse and find details for registered, suspended, stopped or cancelled products in Australia.	Not a bad free app. Can see it would be useful to check withholding periods etc, but not sure you would use it to look up what pesticide to use. Would probably be more beneficial if it provided MSDS or at least links to them for the QA farmer.	