

## **Apps for Agriculture** Download this page: <http://www.ag.ndsu.edu/agmachinery>

### **Chemical Application and Weed Identification**

1. Ground Spray
  - a. User inputs nozzle type, spray angle, orifice size, spray pressure, and solution and the application will calculate the spray quality based on our research. This application will also give the droplet size spectrum for the various input parameters which will allow the applicator to have a sense of the potential of the spray to drift.
  - b. [https://play.google.com/store/apps/details?id=com.kxs.groundspray&feature=search\\_result#?t=W251bGwsMSwyLDEsImNvbS5reHMuZ3JvdW5kc3ByYXkiXQ](https://play.google.com/store/apps/details?id=com.kxs.groundspray&feature=search_result#?t=W251bGwsMSwyLDEsImNvbS5reHMuZ3JvdW5kc3ByYXkiXQ)
2. TeeJet SpraySelect
  - a. Select Teejet nozzles for given spacing, gallons per acre and speed
  - b. Free <https://play.google.com/store/search?q=teejet&c=apps>
3. Tank Mix Calculator
  - a. Generate a tank mix
  - b. Free <https://market.android.com/details?id=air.com.taplogic.tankmixcalculator>
4. Noxious Weeds of South Dakota
  - a. Identification of noxious weeds of South Dakota
  - b. Free <https://market.android.com/search?q=Noxious+Weeds+of+SD>
5. Northern Plains Integrated Pest Management Guide
  - a. Current effective management options for insect and other arthropod pests and for plant pathogens affecting all major field crops grown in North Dakota, South Dakota, Minnesota, Nebraska, Iowa and Kansas
  - b. Free <https://market.android.com/details?id=edu.sdstate.npipmguide>

### **Nitrogen Use Efficiency**

1. GreenIndex+ (Apple)
  - a. Determines the DGCI (Dark Green Color Index) of corn plant leaves. DGCI is a number between 0 and 1, related to the chlorophyll content. You must use the app with specific green and yellow color standards on a pink target board in order for the DGCI to be computed accurately.
  - b. <https://itunes.apple.com/us/app/fieldscout-greenindex+/id577409469?mt=8>
2. Nitrogen Price Calculator
  - a. This app allows you to compare the price of various forms of nitrogen fertilizer products in terms of their price per pound of nitrogen.
  - b. <https://play.google.com/store/apps/details?id=ipcm.calc.nprice#?t=W251bGwsMSwxLDIxMiwiaXBjbS5jYWxjLm5wcmVjZS5j>

### **Machinery and Fuel Applications**

1. Farm Fuel Budget (NDSU)
  - a. Estimates fuel use based on acres, crops, tillage systems, and fuel price
  - b.
2. Machinery Sizing (Kansas State University)
  - a. Estimate tractor horsepower to pull various implements
  - b. Free <https://market.android.com/details?id=com.jsdvorak.machinerysizing&hl=en>
3. Heating Fuel Comparison
  - a. Use this app to decide what fuel is most cost effective for heating your home or building, use this app to compare the relative cost of heating fuels.
  - b. <https://play.google.com/store/apps/details?id=md.apps.NDSUFuel>

## **Calculations**

1. Target Date – Lite
  - a. Calculates time between two dates
  - b. Free <http://www.appbrain.com/app/target-date/com.MPM.ProjecTarget.Alpha>
2. Real Calc
  - a. On-the-fly unit conversions. Example: Number of acres for any given pass of the corn planter.
  - b. Free <https://market.android.com/details?id=uk.co.nickfines.RealCalc&hl=en>
3. Tank Volume Calculator
  - a. Calculate the capacity or remaining liquid volume of your storage tank.
  - b. <https://market.android.com/details?id=com.regaltanks.volumecalculator&feature>
4. Converter Pro
  - a. Convert any measurement – even mixed units, like feet + inches.
  - b. Free <https://market.android.com/details?id=com.blogspot.asifrc.Converter&hl=en>
5. Growing Degree Days
  - a. Measure the maturity of your crop by viewing growing degree days for your farm.
  - b. Free <https://market.android.com/details?id=com.farmcentric.GrowingDegreeDays&hl=en>
6. Grain Shrinkage Calculator
  - a. The Grain Shrinkage Calculator returns the results for the number of bushels after the moisture removal from field to storage for 7 common grains: Corn, Wheat, Soy Beans, Oats, Barley, Buckwheat, and Rye.
  - b. [https://play.google.com/store/apps/details?id=com.kineticthoughts.ff.moistureshrinkage&feature=more\\_from\\_developer#?t=W251bGwsMSwxLDEwMiwY29tLmtpbmV0aWN0aG91Z2h0cy5mZi5tb2lzdHVyZXNocmlua2FnZSJd](https://play.google.com/store/apps/details?id=com.kineticthoughts.ff.moistureshrinkage&feature=more_from_developer#?t=W251bGwsMSwxLDEwMiwY29tLmtpbmV0aWN0aG91Z2h0cy5mZi5tb2lzdHVyZXNocmlua2FnZSJd)

## **General Uses**

1. Spirit Level Plus
  - a. Use your cell phone as a level
  - b. Free <https://market.android.com/details?id=com.wasserwaage&feature>
2. Tiny Flashlight
  - a. Simple, yet very useful flashlight application.
  - b. <https://market.android.com/details?id=com.devuni.flashlight&feature>
3. Flashlight
  - a. Bright flashlight using cellphones camera flash
  - b. <https://play.google.com/store/apps/details?id=com.intellectualflame.ledflashlight.washer&feature>

## **Farm Economics**

1. Farm Futures
  - a. Farm commodity future markets
  - b. Free <https://market.android.com/details?id=farmfutures.inetsgi.com&hl=en>
2. Farm Progress
  - a. The app offers access to American Agriculturist, California Farmer, Carolina-Virginia Farmer, Dakota Farmer, Indiana Prairie Farmer, Kansas Farmer, Michigan Farmer, Mid-South Farmer, Missouri Ruralist, Nebraska Farmer, Ohio Farmer, Prairie Farmer, Southern Farmer, The Farmer, The Farmer-Stockman, Wallaces Farmer, Western Farmer-Stockman and Wisconsin Agriculturist.
  - b. [https://play.google.com/store/apps/details?id=com.farmcentric.GrowingDegreeDays&feature=more\\_from\\_developer#?t=W251bGwsMSwxLDEwMiwY29tLmZhcmljZW50cmJLkdYb3dpbmdEZWdyZWVEYXlzlI0](https://play.google.com/store/apps/details?id=com.farmcentric.GrowingDegreeDays&feature=more_from_developer#?t=W251bGwsMSwxLDEwMiwY29tLmZhcmljZW50cmJLkdYb3dpbmdEZWdyZWVEYXlzlI0).

## **Information**

1. Wikipedia
  - a. Fast access to Wikipedia on your Android phone
  - b. <https://market.android.com/details?id=uk.co.exelentia.wikipedia&feature>
2. RedLaser Barcode Scanner
  - a. RedLaser Barcode Scanner searches for low online and local prices of retailers.
  - b. <https://market.android.com/details?id=com.ebay.redlaser&feature>
3. GasBuddy
  - a. GasBuddy helps you find the cheapest gas prices in your area.
  - b. <https://market.android.com/details?id=gbis.gbandroid&feature>

## **Emergency**

1. Winter Survival Kit
  - a. Winter Survival Kit will help you find your current location, call 911, notify your friends and family, calculate how long you can run your engine to keep warm and stay safe from carbon monoxide poisoning.
  - b. <https://play.google.com/store/apps/details?id=md.apps.Blizzard>
2. Disaster Emergency Log
  - a. Winter Survival Kit will help you find your current location, call 911, notify your friends and family, calculate how long you can run your engine to keep warm and stay safe from carbon monoxide poisoning.
  - b. [https://play.google.com/store/apps/details?id=md.apps.nddrjournal&feature=search\\_result](https://play.google.com/store/apps/details?id=md.apps.nddrjournal&feature=search_result)

## **Soils**

1. Soil Web
  - a. GPS based, real-time access to USDA-NRCS soil survey data
  - b. Free [https://market.android.com/details?id=casoilresource.apps.soilweb&feature=also\\_installed](https://market.android.com/details?id=casoilresource.apps.soilweb&feature=also_installed)

## **GPS, Measuring and Mapping**

1. GPS venture
  - a. Record points, routes and areas.
  - b. [http://www.androidapps.com/tech/apps/878806-gps-venture-ddave/developer\\_notes](http://www.androidapps.com/tech/apps/878806-gps-venture-ddave/developer_notes)
2. GPS Measure
  - a. Measure distance using the GPS in the phone and Google Maps
  - b. Free [https://market.android.com/details?id=com.wrhenprises.GPS\\_Measure&hl=en](https://market.android.com/details?id=com.wrhenprises.GPS_Measure&hl=en)
3. Google Earth App
  - a. Search by voice for cities, places, and businesses. Browse layers including roads, borders, places, photos.
  - b. <https://market.android.com/details?id=com.google.android.apps.maps&feature>
4. AndMeasure
  - a. The AndMeasure tool allows you to measure distances and calculate area between points on a map.
  - b. [https://play.google.com/store/apps/details?id=com.megelc.andmeasure&feature=search\\_result#?t=W251bGwsMSwxLDEsImNvbS5tZWdlbGMuYW5kbWVhc3VyZSJd](https://play.google.com/store/apps/details?id=com.megelc.andmeasure&feature=search_result#?t=W251bGwsMSwxLDEsImNvbS5tZWdlbGMuYW5kbWVhc3VyZSJd)

## **Livestock**

1. Livestock Auction Calculator
  - a. More time to inspect livestock and consider making a bid
  - b. <http://www.androidapps.com/tech/apps/1020252-livestock-auction-calculator>
2. Body Condition Beef Cattle
  - a. This Tool includes an interactive learning activity that will teach you how to score Beef Cows while learning to use the Body Condition Score application features.
  - b. [https://play.google.com/store/apps/details?id=air.edu.unl.BCS&feature=search\\_result#?t=W251bGwsMSwxLDEsImFpci5lZHUudW5sLkJDUyJd](https://play.google.com/store/apps/details?id=air.edu.unl.BCS&feature=search_result#?t=W251bGwsMSwxLDEsImFpci5lZHUudW5sLkJDUyJd)

## **File Storage**

1. Dropbox
  - a. Store digital files online. Access by computer or smartphone.
  - b. <http://www.dropbox.com/>
  - c. <https://market.android.com/details?id=com.dropbox.android&feature>
2. Documents to Go
  - a. View Microsoft Word, Excel and PowerPoint documents on your phone.
  - b. <https://market.android.com/details?id=com.dataviz.docstogo&feature>

Android Apps available from: <http://www.androidapps.com/>