

Weather Log Concept

Problem Statement

Custom spray applicators and farmers need records of weather conditions, product, and time when fields are sprayed

Overall desires

- Lightweight and low cruff
- Works offline
- Log this information:
 - Time sprayed (time in and out for event)
 - Field sprayed
 - Product and rate
 - Other notes
 - Weather data (from NOAA API is fine: <https://www.weather.gov/documentation/services-web-api>)

Existing systems/problems

- <https://www.thecombineforum.com/threads/any-good-spraying-record-keeping-apps.197233/>
- <https://www.spraydiary.net/pricing/> - \$15 AUD /mo
- <https://www.myagreport.com/> - \$250/yr
- <https://www.fulcrumapp.com/apps/spray-records/> - \$468/yr
- <https://farmspraypro.com/> - \$495 one-time
- <https://www.abcsoftware.com/solutions/abcspray/>
- Expensive
- More cruff and validation than necessary

Data to be logged

- Timestamp
- Plain text notes
 - Product & rate
 - Field name
- Current weather conditions

Data format

Some options (multiple may be used, I suppose?)

1. .csv format
2. .xls format (one sheet per event?)
3. JSON/YAML/TOML/HCL/XML format
4. .pdf report
5. keep everything in a sqlite3db and allow queries / reports on it

Data flow

Option 1 - .csv files over Android "share" functionality

| Just attach the file with the android share functionality

Option 2 - automatically send reports over email

| Use a passthrough email service, or hi-jack a user's email (email a file to yourself)

Option 3 - dropbox/webDAV/etc. integration

| Automatically put reports into cloud storage