

Business Need

Who?

NDSU Precision Agriculture Team



What?

Immediate Goal:

Web Application For Data Upload

Long Term Goal:

Data Visualizations in Microsoft's Power BI

Why?

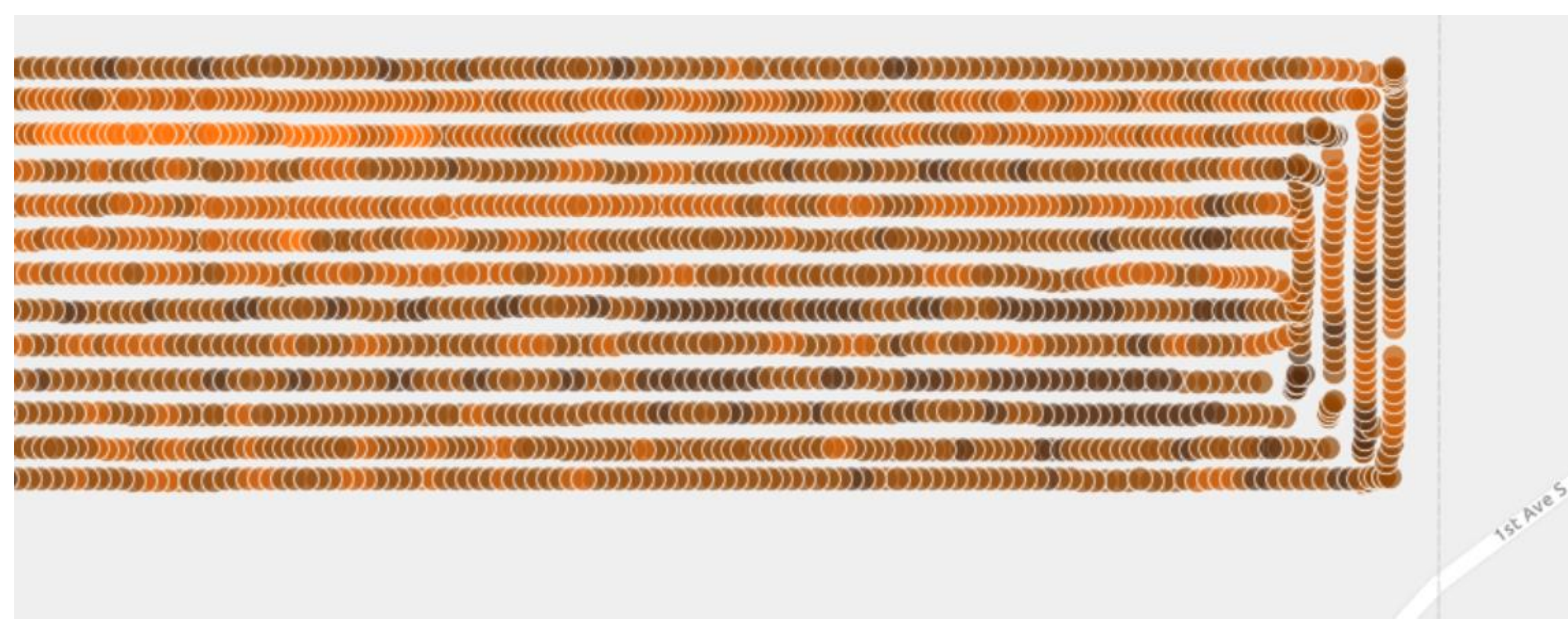
A Streamlined Process For Easy & Intuitive Data Insights as a Multi-Iteration Project

Power BI

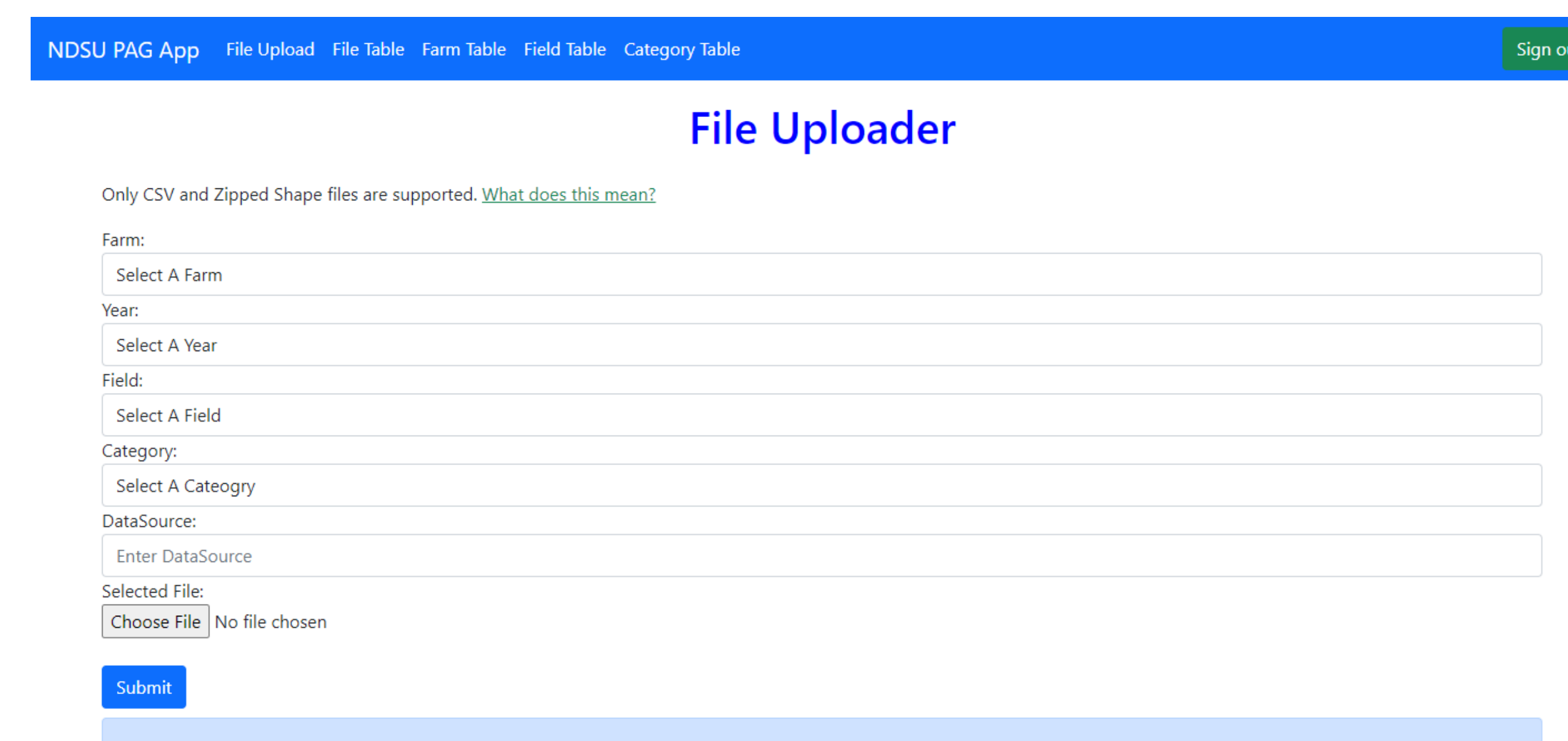
This Agricultural Yield Data From The Cloud

	A	B	C	D	E	F	G	H
1	Longitude	Latitude	Field	Dataset	Product	Distance(ft)	Track(deg)	Elevation(ft)
2	-97.2266	46.879	ASF SE QTR	19/08/10-21:10:35	Barley - Spring	5.469	87.6	932.87
3	-97.2266	46.879	ASF SE QTR	19/08/10-21:10:35	Barley - Spring	2.917	87.5	932.89
4	-97.2266	46.879	ASF SE QTR	19/08/10-21:10:35	Barley - Spring	4.193	87.6	932.89
5	-97.2266	46.879	ASF SE QTR	19/08/10-21:10:35	Barley - Spring	4.829	87.7	932.87
6	-97.2266	46.879	ASF SE QTR	19/08/10-21:10:35	Barley - Spring	5.285	88.1	932.86

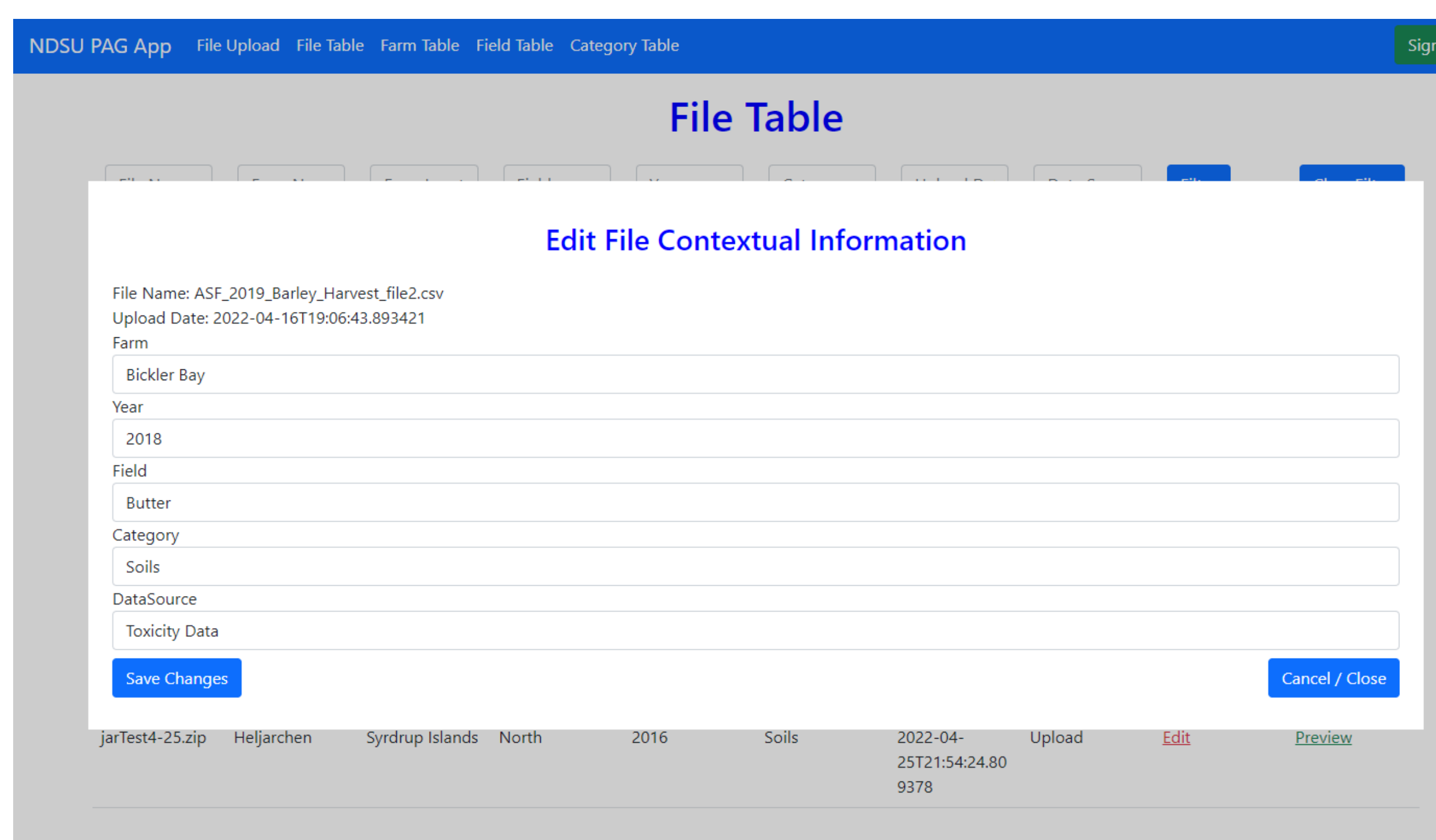
Becomes This Geographic Chart



The Web App



File Name	Farm	Farm Location	Field	Year	Category	Upload Date	Data Source
ASF_2019_Barley_Harvest_file2.csv	Bickler Bay	California	Butter	2018	Soils	2022-04-16T19:06:43.893421	Toxicity Data
ASF.zip	Hagen Farms	Georgia	Beta Sigma	2022	Environmentals	2022-04-16T19:15:46.627843	FarmBeats
ASF_2019_Barley_Harvest.csv	Vincent's Vines	Napa Valley CA	Bittersweet Vines	2018	Seed	2022-04-21T04:27:55.263478	Yield Data
JarTest4-21-2022.csv	Hejarchen	Sydrup Islands	South	2021	Environmentals	21T21:49:33.797998	Farm Beats
exampleTest4-21-2022.csv	Vincent's Vines	Napa Valley CA	Ivy Vines	2019	Soils	2022-04-21T22:02:22.612885	Nutrients Tests
JarTest4-25.zip	Hejarchen	Sydrup Islands	North	2016	Soils	2022-04-25T21:54:24.809378	Upload



The Project How?

1. User Sign In



2. Collecting Contextual Data



3. Storage of Data on the Cloud



4. CSV and SHAPE File Upload



5. Email Notification System



6. Stretch Goal: Power BI

