



Agrometrics

Tableau Customer Story

Agrometrics leverages Tableau to track harvest and generate real time reports to empower their workforce on field.

HARVEST SPECIALTY CROP SUMMARY - PUMPKIN															
Acres Harvested	Sections Finished	Total CT	ct_25	ct_30	ct_35	ct_40	ct_45	ct_50							
279.3	17	10,490	4,071 36.01%	464 4.19%	2,449 22.12%	1,863 16.83%	911 8.23%	1,398 12.63%							
Finished Sections															
Field	Section	Variety	Color	Grower	Month, Day, Year of date	ct_25	ct_30	ct_35	ct_40	ct_45	ct_50	Acres..	Total ..		
GLKR	1	Lantern	Bayhorse Gold	Seeds, Inc.	22 September 2020							18	3		
					24 September 2020							45	6		
					25 September 2020								90	6	8
					26 September 2020	6		33	16	2			7		
Ongoing Sections															
Field	Section	Variety	Color	Grower	Month, Day, Year of date	ct_25	ct_30	ct_35	ct_40	ct_45	ct_50	Acres..	Total ..		
GLKR	12	Lantern	Spartan	Seeds, Inc.	21 September 2020			6.0	29.0	2.0			2.7		
					25 September 2020	162.0		117.0	129.0	82.0			12.0		

CHALLENGE

Data is spread across multiple tables and databases which need to be combined to provide the on field managers with a detailed view to track harvest. Need was to have a near real time system providing updates on live events.

SOLUTION

Agrometrics devised a string-matching mechanism to link events (such as variety and location) to identify which produce is ready to be harvested.

- This allowed client to track fields and parts of field yet to be harvested.
- Simple string pattern matching system with tableau to keep track of harvest has quashed the need to complex tracking tables and other data linking infrastructure.

Agrometrics leverages Tableau to streamline their inventory management and better forecast their supply based on the demand.

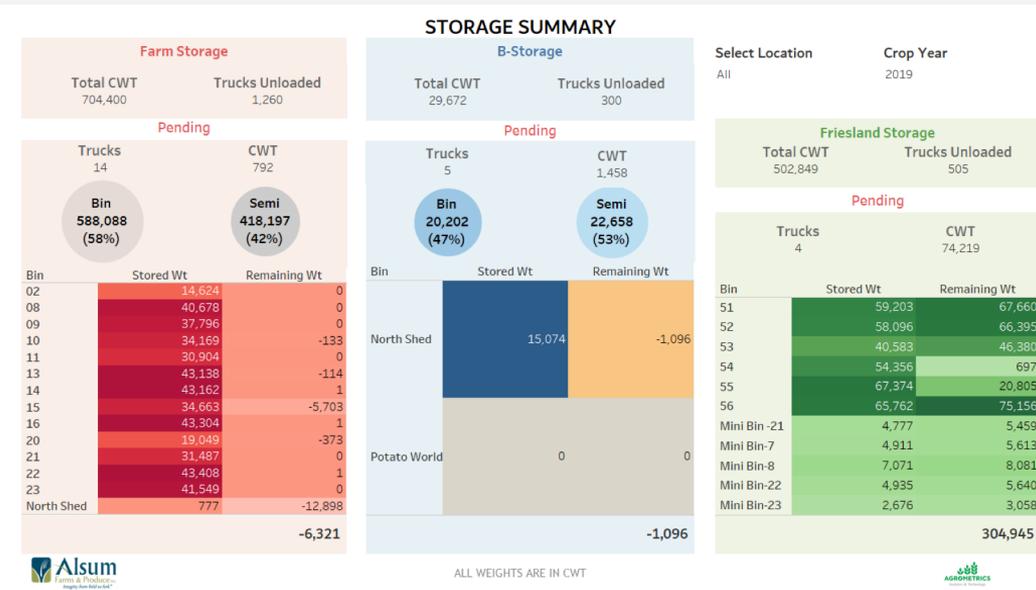
CHALLENGE

Inventory management across various steps of the warehousing process made it difficult to capture an accurate depiction of inventory at any point in time.

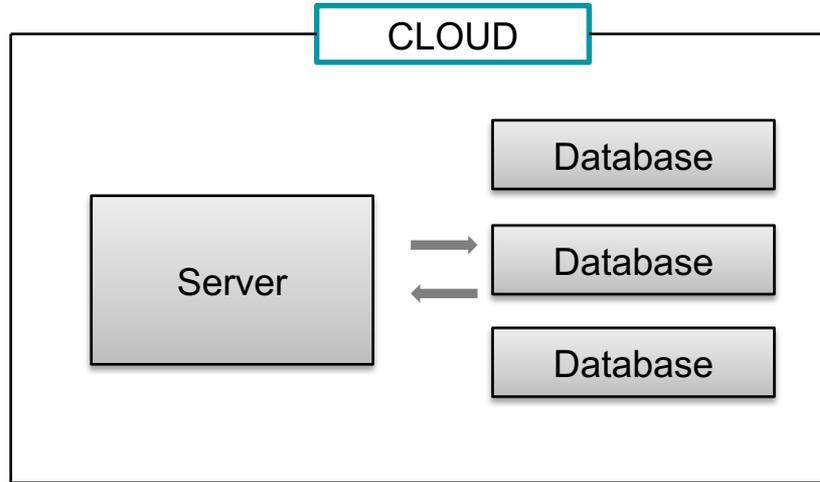
SOLUTION

Agrometrics manages an inhouse cluster of datasources to retrieve information on various operations like loading, storage, shipping etc. and leverages Tableau for consolidating these data points for effective tracking. The solution enabled:

- Information at different stages of the process allowed agronomers to accurately know vantage, defects etc.
- Easy to create demand-supply forecast based inventory snapshot.



BI Pipeline



Agrometrics uses tableau to report various events in agronomy operations from seed to harvest and inventory management.

Agrometrics hosts tableau server on a cloud server machine, which enables the tableau desktop and tableau server to connect to multiple databases.

Statistical analysis, forecasting and predictions are done in native tableau with minimal third-party interventions.

How we use data?

- The bulk of our task is to report an event such as planting, harvesting or storing aspect of farming.
- Most of our dashboards use the records of any such events entered in our data module to update the dashboards to reflect these events.
- Yield predictions and harvest forecasting are few other ways we utilize data to achieve optimal profits for our clients.

What's it like before Tableau?

- Reports were generated in excel and circulated through email. The data was less frequent, and reporting was time consuming.
- Dashboards were less interactive, new feature request could not be accommodated easily due to limitations of excel.
- Version control on excel was tedious, as each machine uses different versions of Ms Excel. File corruption was more frequent.
- Security and access control was another major issue as the excel file floated around among many users

Business Impact

- Multiple users from different locations can now access the necessary information readily and reliably.
- Any discrepancies in terms of operations and potential loss of resources are quickly identified.
- Forecasting will automatically include newest data as it crops up in the databases with intervention from analyst.