

# Vineyard & Winemaking Workflow Reporting



**SMARTCAT™**

Many business decisions can be made from analyzing data collected in the field. SmartCAT and RFID tags maximize visibility into records and allow for quick data collection. The information automatically saves in a cloud database, making it easy to access and manage via phone, tablet and desktop computer. It can then be exported into multiple formats such as JSON, XML, and CSV and imported into existing reporting software. Having the information at your fingertips and being able to sort each step by job traveler helps track grapes from vine to barrel, identify potential issues quicker and meet compliance. Below are examples of types of information that can be collected and tracked during each process.

Date	Job Number	Vineyard Block	Variety	Harvest Weight
1/28/2014	882174	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882175	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882176	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882177	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882178	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882179	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882180	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882181	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882182	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882183	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882184	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882185	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882186	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882187	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882188	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882189	Chardonnay/Burgundy	Chardonnay	1880
1/28/2014	882190	Chardonnay/Burgundy	Chardonnay	1880

## Vineyard Observation & Harvesting

A vine observation report tracks vines readiness to harvest based on the collected data from the vine. The report includes information such as the varietal, vineyard block, vine condition and stage, applications with amounts, Brix measurement, harvest weight and year planted.

## Destemming and Crushing

Destemming and crushing reports track grape weights/volumes based on their varietal and machine used to destem and crush them. The reports include information such as the picking, destemming and crushing dates, machine used and cluster weight/juice volume.

Date	Job Number	Vineyard Block	Variety	Harvest Weight	Destemmed Weight	Crushed Weight
1/28/2014	882174	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882175	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882176	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882177	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882178	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882179	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882180	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882181	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882182	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882183	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882184	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882185	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882186	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882187	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882188	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882189	Chardonnay/Burgundy	Chardonnay	1880	1880	1880
1/28/2014	882190	Chardonnay/Burgundy	Chardonnay	1880	1880	1880

Date	Job Number	Name	Fermentation Start Date	Fermentation Tank	Yeast	Temperature	Initial Volume	Final Volume	Weight	Volume
1/18/2018	88075	Chardonnay	Thu Jan 18 2018	Fermentation Tank 1	Yeast	18	100	100	100	100
1/18/2018	88076	Chardonnay	Thu Jan 18 2018	Fermentation Tank 2	Yeast	18	100	100	100	100
1/18/2018	88077	Chardonnay	Thu Jan 18 2018	Fermentation Tank 3	Yeast	18	100	100	100	100
1/18/2018	88078	Chardonnay	Thu Jan 18 2018	Fermentation Tank 4	Yeast	18	100	100	100	100
1/18/2018	88079	Chardonnay	Thu Jan 18 2018	Fermentation Tank 5	Yeast	18	100	100	100	100
1/18/2018	88080	Chardonnay	Thu Jan 18 2018	Fermentation Tank 6	Yeast	18	100	100	100	100
1/18/2018	88081	Chardonnay	Thu Jan 18 2018	Fermentation Tank 7	Yeast	18	100	100	100	100
1/18/2018	88082	Chardonnay	Thu Jan 18 2018	Fermentation Tank 8	Yeast	18	100	100	100	100
1/18/2018	88083	Chardonnay	Thu Jan 18 2018	Fermentation Tank 9	Yeast	18	100	100	100	100
1/18/2018	88084	Chardonnay	Thu Jan 18 2018	Fermentation Tank 10	Yeast	18	100	100	100	100

**Fermentation**

A fermentation report tracks the fermentation of the juice based on the fermentation tank and yeast strain. The report includes information such as the fermentation start date, tank, grape varietal, yeast strain, temperature and initial volumes. Throughout fermentation, the report also includes different maintenance and monitoring processes, additions with their amounts, bleed loss and volumes.

**Cellaring & Blending** Cellaring and blending reports track barrels in use throughout the cellaring process with their volumes as they go through topping, blending and stirring processes. The reports include the barrels' size and type, date filled, varietal and any completed maintenance and monitoring processes.

Date	Job Number	Name	Fermentation Start Date	Fermentation Tank	Yeast	Temperature	Initial Volume	Final Volume	Weight	Volume
1/18/2018	88075	Chardonnay	Thu Jan 18 2018	Fermentation Tank 1	Yeast	18	100	100	100	100
1/18/2018	88076	Chardonnay	Thu Jan 18 2018	Fermentation Tank 2	Yeast	18	100	100	100	100
1/18/2018	88077	Chardonnay	Thu Jan 18 2018	Fermentation Tank 3	Yeast	18	100	100	100	100
1/18/2018	88078	Chardonnay	Thu Jan 18 2018	Fermentation Tank 4	Yeast	18	100	100	100	100
1/18/2018	88079	Chardonnay	Thu Jan 18 2018	Fermentation Tank 5	Yeast	18	100	100	100	100
1/18/2018	88080	Chardonnay	Thu Jan 18 2018	Fermentation Tank 6	Yeast	18	100	100	100	100
1/18/2018	88081	Chardonnay	Thu Jan 18 2018	Fermentation Tank 7	Yeast	18	100	100	100	100
1/18/2018	88082	Chardonnay	Thu Jan 18 2018	Fermentation Tank 8	Yeast	18	100	100	100	100
1/18/2018	88083	Chardonnay	Thu Jan 18 2018	Fermentation Tank 9	Yeast	18	100	100	100	100
1/18/2018	88084	Chardonnay	Thu Jan 18 2018	Fermentation Tank 10	Yeast	18	100	100	100	100

Job Number	Cluster Weight	Destemmed Weight	Sorter Output	Crush Volume	Fermentation Volume	Final Loss	Remaining
88075	1,000	800	1,000	1,000	1,000	0	100
88076	1,000	800	1,000	1,000	1,000	0	100
88077	1,000	800	1,000	1,000	1,000	0	100
88078	1,000	800	1,000	1,000	1,000	0	100
88079	1,000	800	1,000	1,000	1,000	0	100
88080	1,000	800	1,000	1,000	1,000	0	100
88081	1,000	800	1,000	1,000	1,000	0	100
88082	1,000	800	1,000	1,000	1,000	0	100
88083	1,000	800	1,000	1,000	1,000	0	100
88084	1,000	800	1,000	1,000	1,000	0	100

**Loss Tracking**

A loss tracking report acts as a high level overview to highlight weight and volumes throughout of all the processes. It allows users to view the information at once, then dig deeper into why certain weights and volumes decreased or changed in the individual reports. This report includes cluster, destemming and sorting weights as well as crush and fermentation volumes.

All of the data collected by SmartCAT and RFID tags can be viewed as customizable reports and managed from any device. Analyzing a grape from vine to barrel, or vice versa, is important in order to catch issues in any of the winemaking processes and ensure all weights are meeting compliance.