

# Fab Op Report

## For week ending Thursday, 2019-02-21

Created 2019-02-22

### Purpose

The purpose of this weekly write-up is to report the Fab Op Metric, a single number that encapsulates the most important areas of Adafruit's manufacturing division; that is, work order scheduling, quality, rework success rate, and in-stock percentage. The Fab Op Metric is inspired by the well-known [Overall Equipment Effectiveness Metric](#).

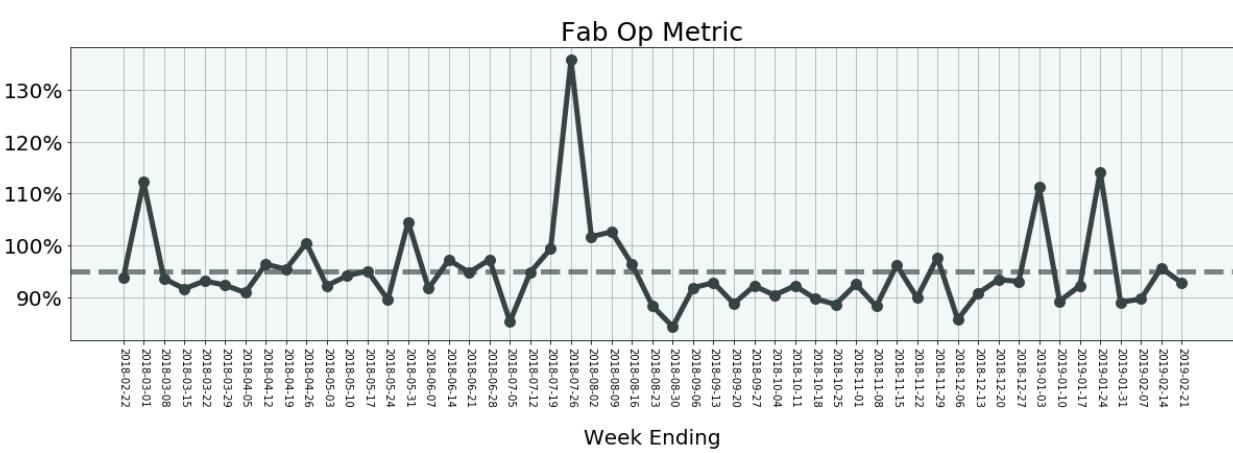
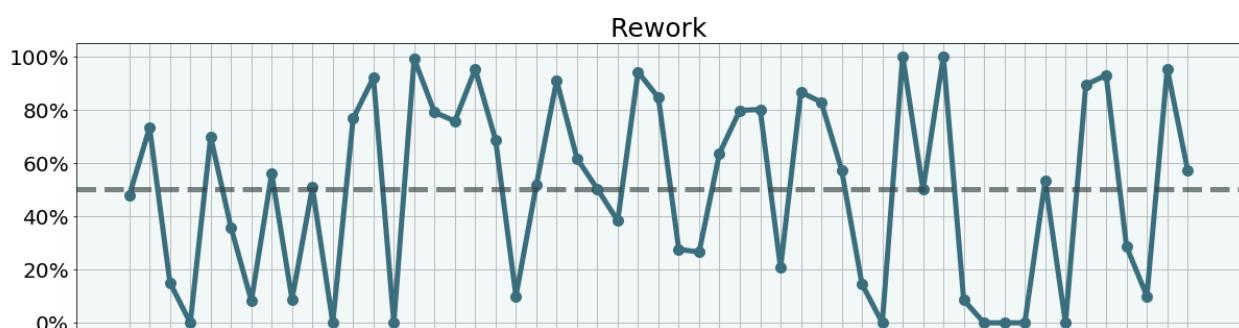
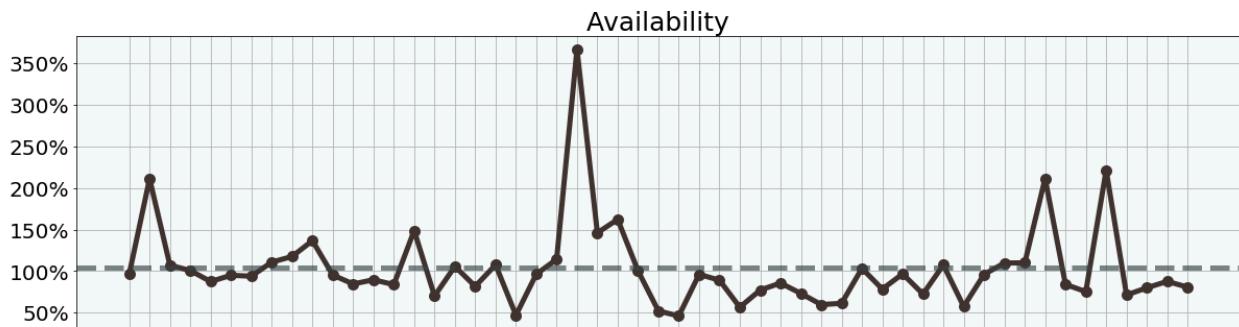
### Weekly Fab Op Metric

\*A week begins on Friday and ends on Thursday. All of the averages in this report are taken over the last 53 weeks (so about one year).

Metric	Week Ending 2019-02-21	Avg	Weight	Above Or Below The Avg
Availability	80.8%	103.8%	15.0%	below
Quality	99.6%	99.4%	20.0%	ABOVE
Rework	57.4%	50.1%	5.0%	ABOVE
In-Stock	96.4%	95.0%	60.0%	ABOVE
Fab Op Metric	92.8%	94.9%		below

Keep scrolling for a bird's-eye-view of these metrics over time.

## Fab Op Metric with Averages



# Work Order Overview

At the time of this writing, the data shows the following work order counts:

Wo Status	Work Order Counts
Completed	5,693
Pending	269
Active	158
Total	6,120

## CSV Data

[Here's](#) where you can view a CSV which contains the data used in this report, and below are some notes on each worksheet.

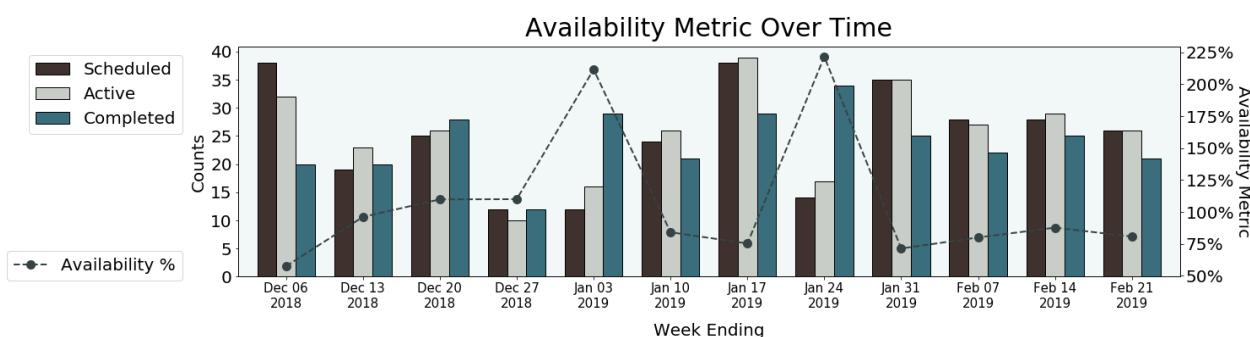
- Fab Op Table: The same table shown at the top of this report, for reference
- Completed: All WOs currently marked as “Completed”
- Active: All WOs currently marked as “Active”
- Pending: All WOs currently marked as “Pending”
- Completed WOs with null dates: WOs currently marked as “Completed”, but whose “Date Active” or “Date Completed” is null or equal to zero
- Skus Used For In-Stock Metric: The skus this report uses in the calculation of the In-Stock Metric
- Rejection data: All parts which incurred rejections for the current week ending
- Current Reworks: All attempted reworks for the current week ending

## Availability

\*Availability = 50% \* (WOs completed / scheduled) + 50% \* (WOs completed / active)

†Excludes outsourced WOs

This metric equalled 80.8%, underneath the average of 103.8%. x26 work orders were scheduled, x26 went active, and x21 were completed. The chart below shows these counts over time along with the Availability Metric.



# Quality

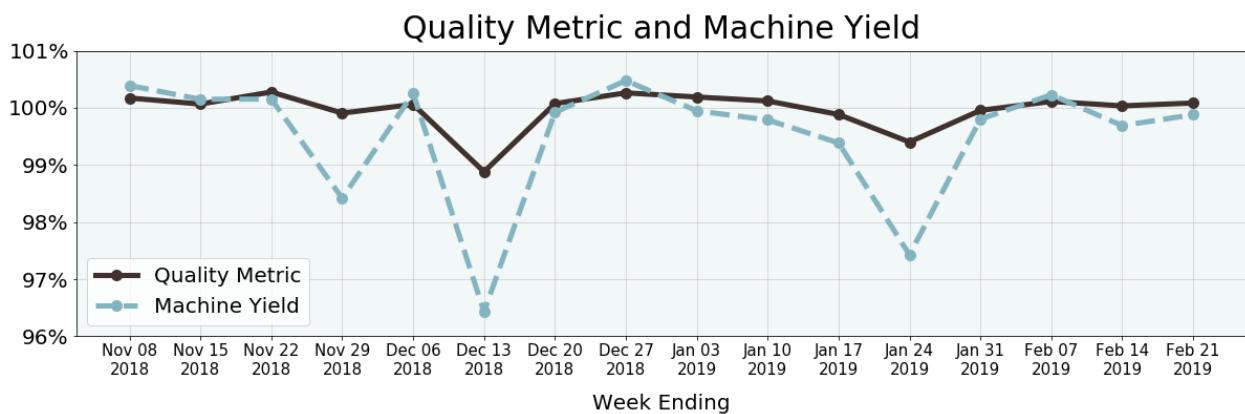
\*Quality = Good Units / Total Units

†Measured over all steps, not just the Fabrication step

This metric arrived at 99.6%, about equal to the average of 99.4%. On a step-by-step basis, all rejections counts were below or at their averages.

To see all rejections for the current week ending, check out the workbook link at the top of this report, and navigate to the "Rejection Data" worksheet.

Zooming in now to the Fabrication step, we have Machine Yield, which arrived at 99.4%, passing the average of 98.6%. Below is a chart showing the Quality Metric alongside Machine Yield.

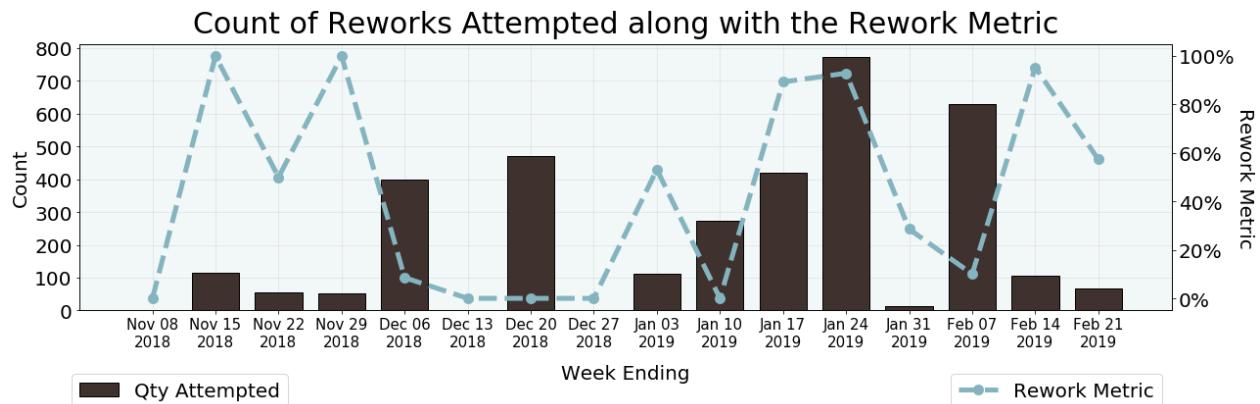


## Reworks

\*Reworks = Successful Reworks / Total Reworks Attempted

This metric equalled 57.4%, surpassing the average of 50.1%. x68 units were attempted and x39 were successful.

To see all reworks for the current week ending, check out the workbook link at the top of this report, and navigate to the "Current Reworks" worksheet. Below we have a chart showing the count of reworks over time along with the Rework Metric.

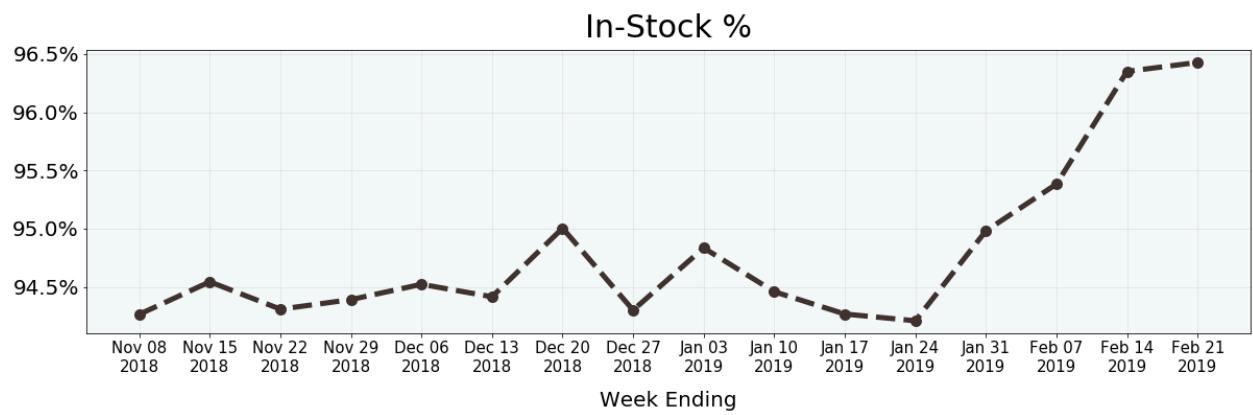


## In-Stock

\*Visible in-stock percentage of all currently working skus that have a bom type equal to "pnp".

†The unique sku count is currently x413. To see the skus which are used in this metric, check out the workbook link at the top of this report, and navigate to the worksheet titled "Skus Used For In-Stock Metric".

This metric equalled 96.4%, surpassing the average of 95.0%, and below is a chart showing this metric over time.



## Elapsed Times For Work Orders

This section contains a standalone set of metrics which are not included in the calculation of the Fab Op Metric. The table below shows the average time in days that it takes for a single work order to go from period to period.

	Week Ending Feb 21, 2019	6 Month Avg	Shorter Or Longer Than Avg?
<b>Created To Scheduled</b>	60	57	Longer
<b>Scheduled To Active</b>	1	1	About Equal
<b>Active To Completed</b>	24	31	Shorter

## State of the Fruit Blurb

Copy/paste the blurb below into your SOTF notes :)

fab ops!

- availability: 80.8% (last week: 87.7%)
- quality: 99.6% (last week: 99.5%)
- rework: 57.4% (last week: 95.3%)
- in-stock: 96.4% (last week: 96.4%)
- overall: 92.8% (last week: 95.6%, goal = 94.9%)

End of report