

Fill rate analysis

Nutritional health products manufacturer

- Consolidated various data sources JD Edwards, SharePoint into a data model using ADF pipelines and analyzed Orders and Fulfilment data
- Developed a Power BI dashboard to support the Supply Chain team in analyzing the performance of warehouses in fulfilling the orders, by focusing on key Fill rate metrics

FILL RATE ANALYSIS

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Fill rate analysis for nutritional health products manufacturer

Situation

- Client lacked visibility to analyze the performance of warehouses in fulfilling the orders on an ongoing basis due to absence of standard reporting and lack of agreed definitions for calculating different fill rate metrics
- Partnered with the client to evaluate the key drivers that impact fill rate, finalize the definitions of various fill rate metrics, and build Power BI dashboard that is refreshed daily to track these metrics

Accordion Value Add

- Defined the logic for calculating fill rate at order, line, unit, value(\$) level using 'First Shipment Date' (minimum shipment date at which units were shipped among all the lines for an order)
- Built the required pipelines on Azure Data factory & structured data models on Visual Studio
- Developed a self serve robust Power BI dashboard focusing on weekly, quarterly and monthly comparison of different fill rate metrics at Brand, Channel and Business Unit levels to identify any concerning trends where action might be needed
- · Performed YoY comparison of shipment and fill rate data to provide insights into the trends and variances
- Analyzed customer and supplier level data for different fill rates to identify the top customers that were getting impacted because of nonperformance

Impact

- The Customer & Item level drill-throughs provided across the report enabled client to easily filter down to individual customer level details to take specific actions based on the fill rate performance for the selected time period
- The automated dashboard was leveraged as the final source of reporting for the fill rate metric ensuring that the entire Supply Chain team is looking at same data and metrics
- The report helped the warehousing team in managing their third-party logistics as they can easily pull the shipments by Warehouse

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Approach & Methodology

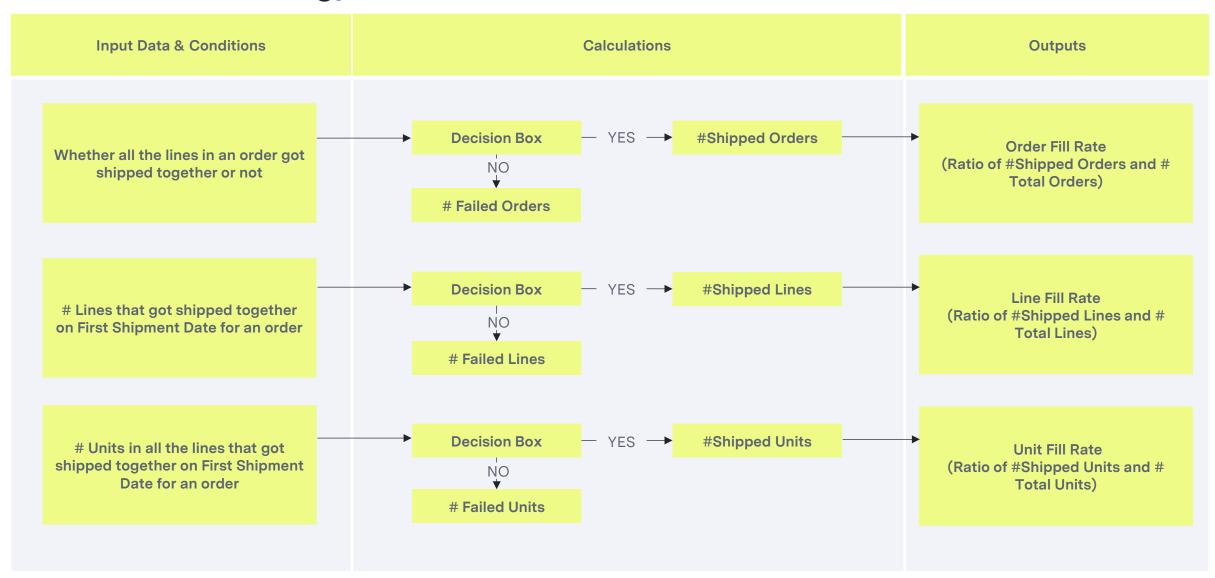


Note: Total Lines (or Units) contains the lines (or units) that got shipped after the first shipment date for an order in addition to the lines/units that got shipped on first shipment date

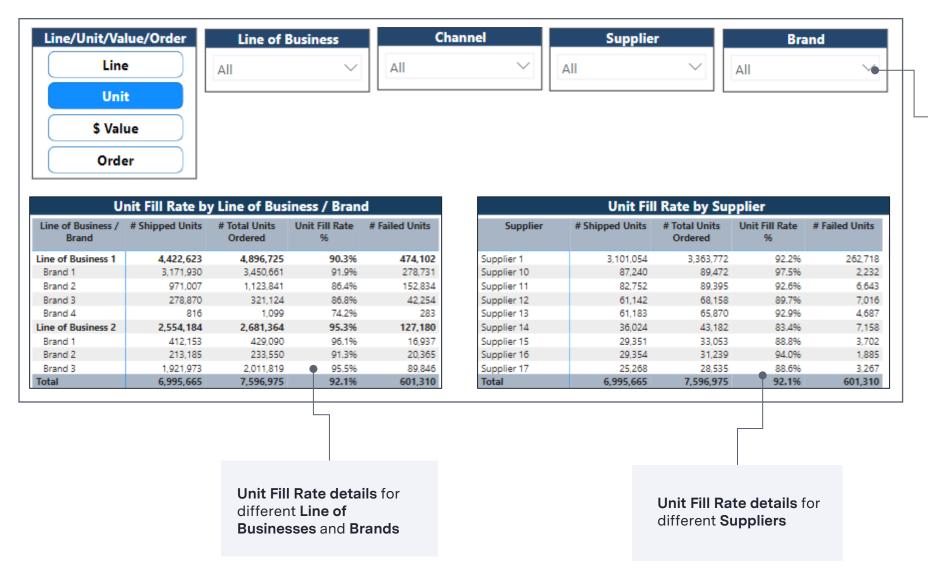
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Fill rate methodology



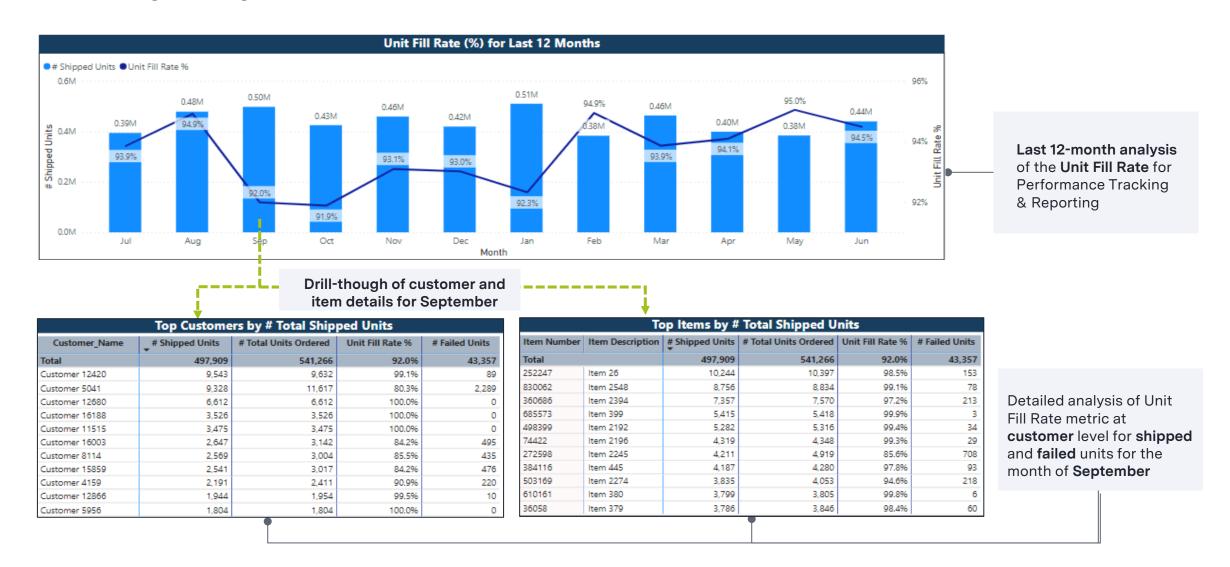
Executive summary of fill rate metrics



User can select the view (Line/Unit/\$Value/Order), Channel, Brand, Supplier, Line of Business to analyze the fill rate for the selected period

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Monthly analysis of unit fill rate metric

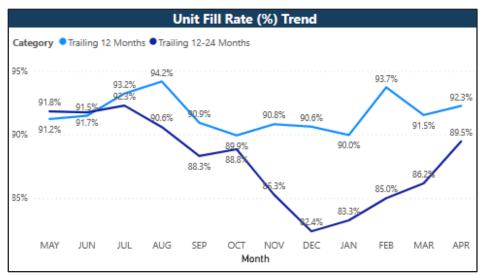


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YOY Comparison









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