QualityWindow

The continuous improvement software

QW Summary Statistic Reporter

SumStat Administor Guide

October 6, 2026

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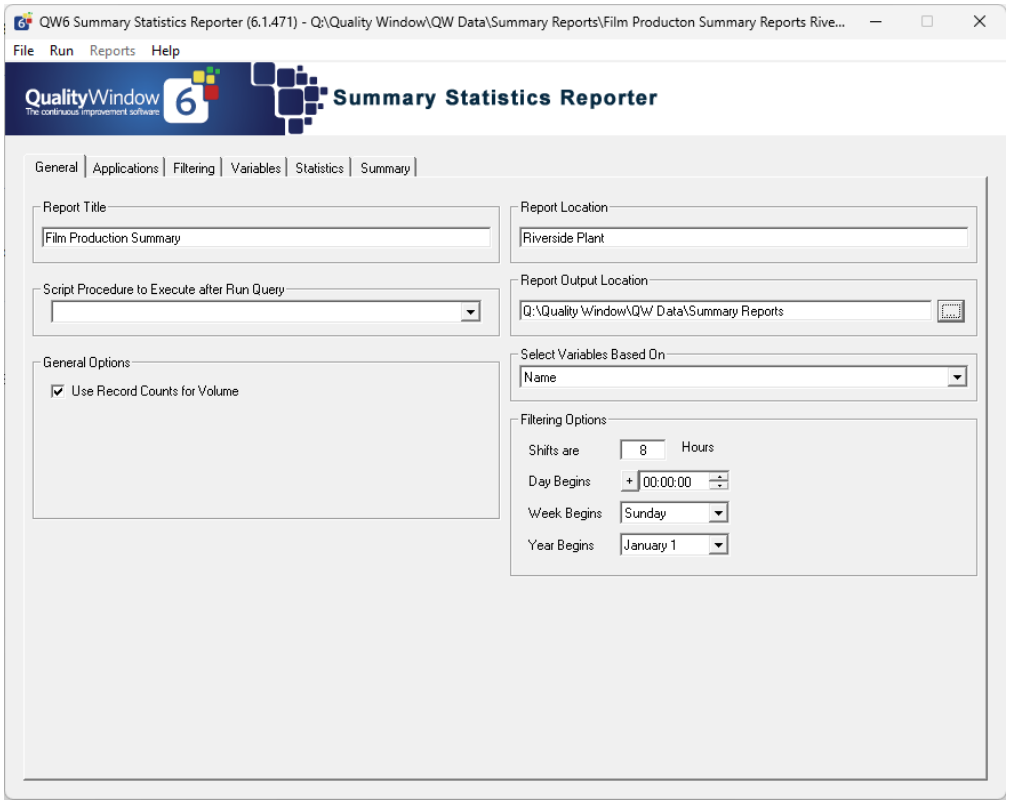
Overview

The QW Summary Statistic Reporter (SumStat) is Quality Window's analysis, reporting, and automated delivery tool for manufacturing quality and process teams. It provides a reusable analytical layer across one or more Quality Window applications so users can compare process performance, calculate statistics, investigate underlying observations and specification exceptions, automate recurring analysis, and deliver supported reports to the people who need them.

Product naming
This guide refers to the Quality Window Summary Statistics Reporter as SumStat. In Quality Window Admin, the utility is labeled SumStat Reporter. The SumStat application itself may display QW6 Summary Statistics Reporter or Summary Statistics Reporter in the user interface.

SumStat Reporter icon in QW Admin

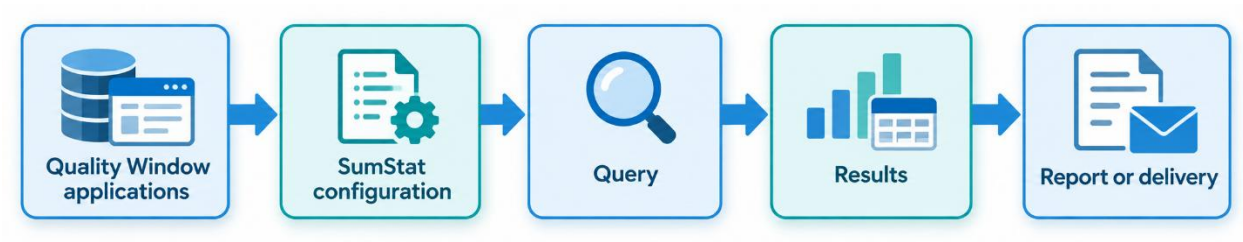


SumStat window

How SumStat Complements Quality Window

Quality Window contains the operational manufacturing data, including applications, variables, records, Views, limits, and other application configuration. SumStat operates across those sources to provide broader analysis, investigation, reporting, automation, and delivery. It does not replace the applications where the data originates.

A useful way to think about the workflow is:



Quality Window applications -> SumStat configuration -> Query -> Results -> Report or delivery

A single SumStat configuration can include multiple Quality Window applications and Views. SumStat maps selected variables to the corresponding variables in each source application, so the same logical variable does not need to occupy the same internal variable position in every application.

The complete product workflow can also be summarized as:

Consolidate -> Analyze -> Investigate -> Automate -> Deliver

When to Use SumStat

SumStat is most useful when the question extends beyond reviewing one Quality Window application or one Logsheet. It is intended for quality engineers, process engineers, laboratory and QA personnel, continuous improvement teams, quality systems administrators, and manufacturing personnel responsible for recurring quality reporting.

Requirement	How SumStat Helps
Compare products, processes, lines, or applications	Analyze multiple Quality Window applications through one configuration.

Requirement	How SumStat Helps
Review process performance	Calculate a consistent set of selected statistics across applications and variables.
Review application-level performance	Use Summary Statistics in addition to individual variable statistics.
Investigate a statistical result	Use Detailed Variable reports to review the observations behind the result.
Identify specification exceptions	Use the Out of Specification report to identify and investigate fixed-specification violations.
Repeat the same analysis	Save the analysis as a reusable .SUM configuration.
Automate recurring reporting	Execute a tested .SUM configuration unattended or through the Quality Window Task Scheduler.
Distribute recurring quality information	Email supported reports automatically after generation.
Provide results without requiring SumStat access	Deliver report content or attachments directly to report recipients.
Continue analysis outside SumStat	Use Excel or CSV output in other analysis and data-processing workflows.

When SumStat Is Not the Right Tool

Use Quality Window when the primary task is entering, reviewing, or managing operational quality and process data within an application. Use SumStat when the primary task is analyzing, investigating, reporting, automating, or distributing information across Quality Window data.

SumStat is not another Logsheet, a replacement for Quality Window, a generic business intelligence platform, a general-purpose data warehouse, or merely a report generator. Its strength is its relationship with Quality Window and its ability to turn configured Quality Window data into reusable manufacturing analysis.

Understanding SumStat Configurations

What a Configuration Defines

SumStat is configuration driven. A configuration identifies the Quality Window applications and Views to analyze, the variables to include, the statistics and Summary Statistics to calculate, query criteria, volume and normalization behavior, report output behavior, and the script procedure that should run after the query when automatic report generation is required.

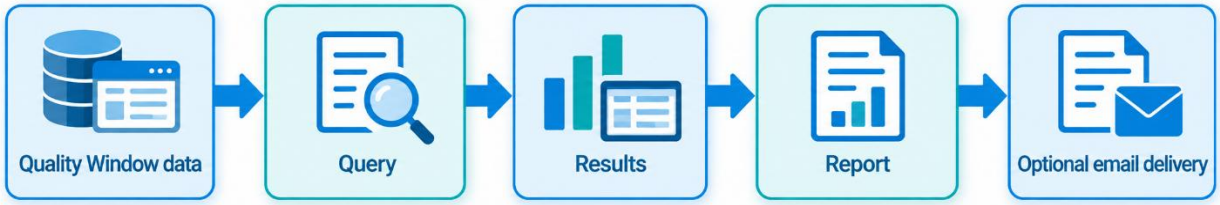
SUM Files

A .SUM file is a saved SumStat configuration. It contains the reusable definition of the analysis; it is not the generated report output.

- Open a .SUM file from within SumStat to review or modify the configuration, run the query, and execute reports.
- Double-click a .SUM file to execute the saved configuration unattended through its Windows file association.
- Use a tested .SUM file with the Quality Window Task Scheduler for recurring execution.
- Reuse the same .SUM configuration to generate new report output as the underlying Quality Window data changes.

Query, Report, and Delivery Are Separate Steps

The query processes the configured Quality Window sources and calculates the selected results. A report determines how those results are presented or exported. Email delivery determines how supported report output reaches recipients. Keeping these concepts separate makes it easier to configure, test, automate, and troubleshoot SumStat.




```
Quality Window data -> Query -> Results -> Report -> Optional email delivery
```

Starting SumStat

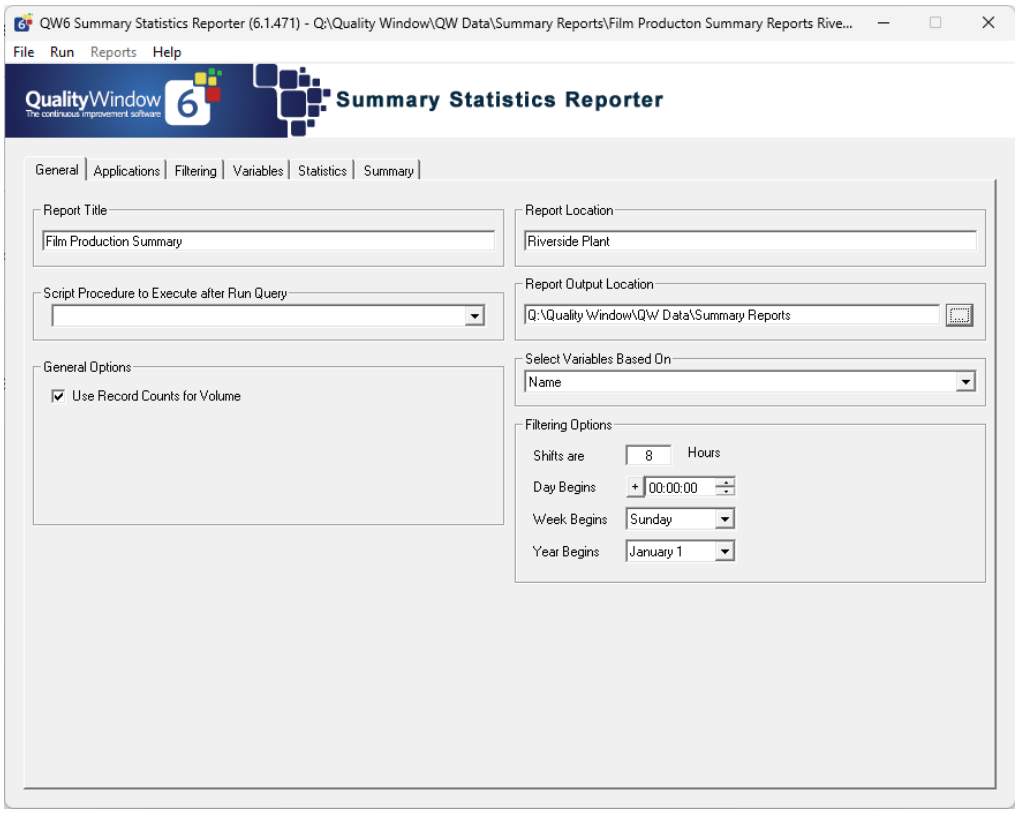
1. Open QW Admin.
2. Select the SumStat Reporter icon.
3. Create a new configuration or open an existing .SUM file.

File Menu

Command	Purpose
New	Create a new SumStat configuration.
Open	Open an existing .SUM configuration.
Save	Save changes to the current .SUM configuration.
Save As	Save the current configuration under a new filename.

Command	Purpose
Create Shortcut on Desktop	Create a Windows shortcut for the current .SUM configuration.
Recent .SUM files	Open a recently used configuration.
Exit	Close SumStat.

Configuring the General Tab



General tab

Report Title

Enter a descriptive title for the analysis. The Report Title identifies the analysis in generated output and is also used when SumStat builds automated email subjects.

Report Location

Report Location is a descriptive identifier for the analysis, such as a production line, plant, laboratory, or product family. It can appear in generated reports and automated email identification. Report Location does not define a filesystem path.

Report Output Location

Report Output Location defines the folder used for generated report files. Enter the location directly or use the browse button to select a folder.

- If Report Output Location is blank and a .SUM file is loaded, SumStat uses the folder containing that .SUM file.
- If Report Output Location is blank and no .SUM file is loaded, SumStat uses C:\Busitech\QW6\SumStat Reports.
- Reports that are emailed are still saved to the applicable Report Output Location.

Script Procedure to Execute after Run Query

This setting selects the SumStat script procedure that runs automatically after the query is processed. It must be configured when a saved .SUM file is intended to generate a report automatically during unattended or scheduled execution.

If no script procedure is selected, running the query interactively displays the built-in Quality Window Summary Statistics results window. A selected script procedure can generate one of the supplied reports or perform other scripted actions supported by the SumStat scripting environment.

Automation can extend beyond report files
Because the configured procedure runs through the SumStat scripting engine, custom automation can do more than generate a report. For example, a customer-specific procedure could pass results into another database or ERP workflow. Contact Busitech Support for assistance with custom automation.

Use Record Counts for Volume

Enable Use Record Counts for Volume when the number of records processed for each application should provide the volume basis used by normalized results. When this option is enabled, manually entered Volume values on the Applications tab are not used as the normalization basis.

Select Variables Based On

Option	When to Use It
Name	Use when corresponding variables use the same variable names across the selected applications.
X-Ref	Use when corresponding variables may have different names but share a consistent X-Ref value.
Category	Use when corresponding variables may have different names but share a consistent Category value.

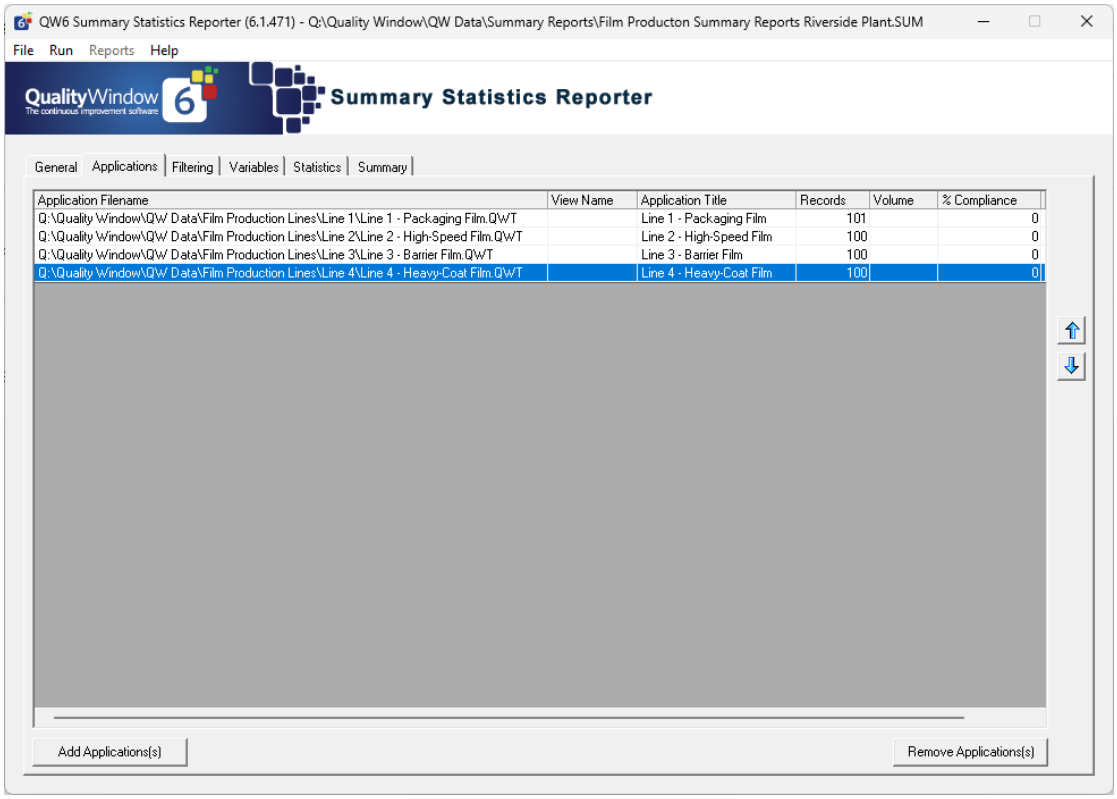
This setting is important for multi-application analysis. SumStat maps each selected variable to the matching variable in each participating application; the internal variable number does not need to be the same across applications.

Filtering Options

Setting	Purpose	Default
Shifts are	Length of a shift in hours.	8 hours
Day Begins	Beginning time of the reporting day. The +/- value supports a day beginning before or after midnight.	00:00:00
Week Begins	First day of the reporting week.	Sunday
Year Begins	Beginning of the reporting year.	January 1

For example, -01:00:00 represents a reporting day beginning at 11:00 PM, while +01:00:00 represents a reporting day beginning at 1:00 AM.

Selecting Quality Window Applications



The Applications tab identifies the Quality Window applications that participate in the SumStat analysis. A configuration can contain one or many applications.

Adding and Removing Applications

- Select Add Application(s) to add one or more Quality Window applications.
- Use Shift or Control while selecting to add or remove multiple applications at the same time.
- Use the up and down controls to reorder applications where report order matters.
- Select a column heading to sort the displayed application list.

Application Information

Column / Value	Purpose
Application file	The Quality Window application and its path.
View Name	The selected Quality Window View, when one is used.
Application Title	The application title.
Records	Record information associated with the application.
Volume	Configured volume used when record counts are not used for normalization.
% Compliance	Legacy manually entered value retained in the configuration. It is not used by the current Busitech-supplied calculations, filters, reports, charts, or email delivery. Leave blank unless Busitech directs otherwise.

Selecting a View

A View can be selected separately for each application. Use a View when the application already contains a defined subset of records that should serve as the starting data set for the analysis.

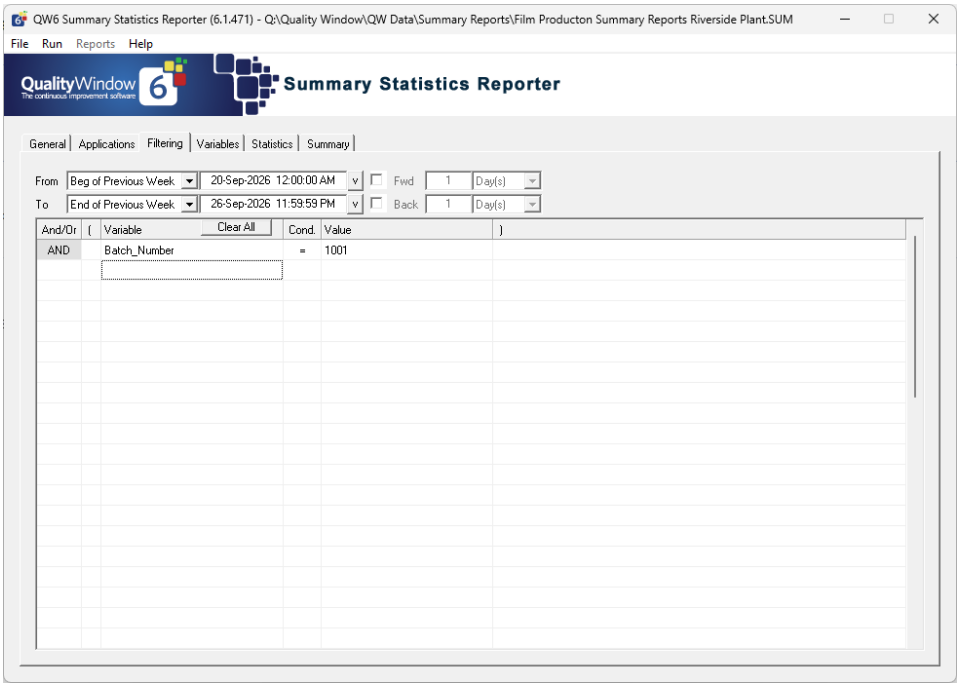
View and SumStat Filtering Work Together

When a View is selected, the View defines the base data set for that application. SumStat Filtering is then applied to that base data set. If no View is selected, the SumStat filter is applied to the application data directly.

Volume Values

When Use Record Counts for Volume is not selected on the General tab, enter the appropriate Volume value for each application. A production quantity for the selected reporting period is a common example. Normalized results are calculated separately from the original statistical result so reports can present both representations.

Filtering Data



The Filtering tab constrains the records included in the SumStat query. It can apply date/time criteria and data-value criteria.

Date and Time Filtering

Use the upper portion of the Filtering tab to constrain the query by date and time. The General tab settings for shift length, day start, week start, and year start provide the reporting-calendar context used by these options.

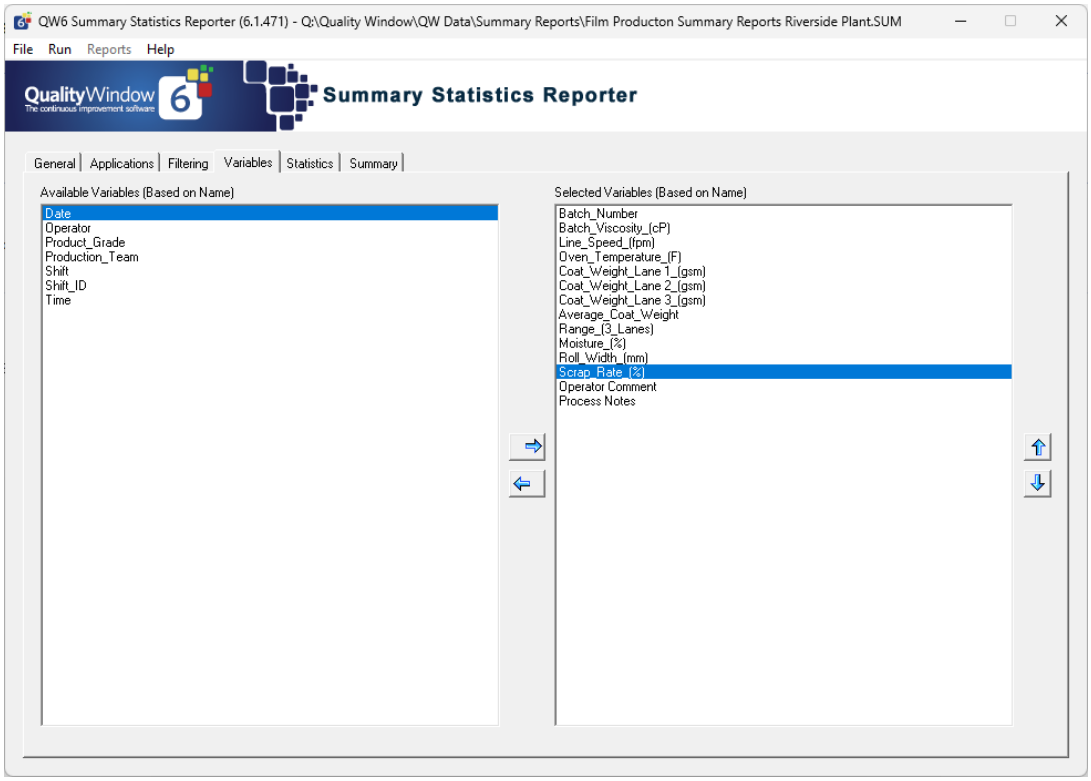
Data-Value Filtering

Use the lower portion of the Filtering tab to constrain records based on variable values and comparison conditions.

Filtering with a Selected View

When an application has a View selected, SumStat first uses the records available through that View and then applies the SumStat filter to those records. This allows the View to establish an application-specific base data set while the SumStat configuration applies additional common criteria.

Selecting Variables

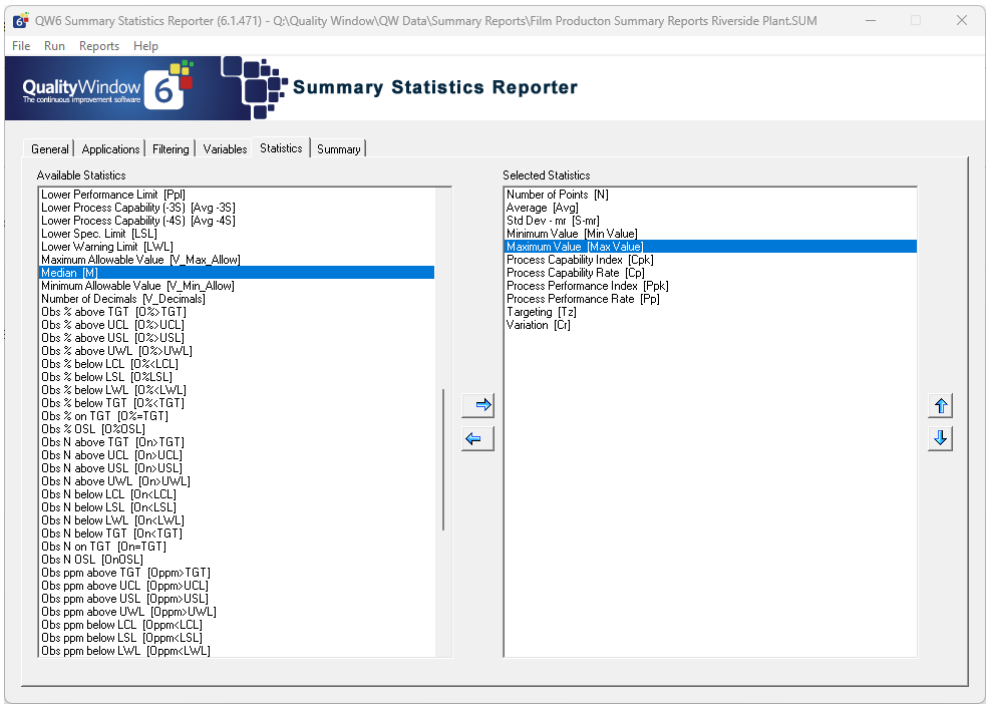


The Variables tab identifies the Quality Window variables to include in the analysis. The available list is built across the selected applications using the matching method configured on the General tab: Name, X-Ref, or Category.

- Use the right arrow to add a variable to Selected Variables.
- Use the left arrow to remove a variable.
- Use the up and down arrows to control the selected-variable order.
- Use Shift or Control to select multiple variables before moving them.

For multi-application analysis, select the measurements or characteristics that should be evaluated together. SumStat maps each selected item to the corresponding variable in each source application.

Selecting Variable Statistics



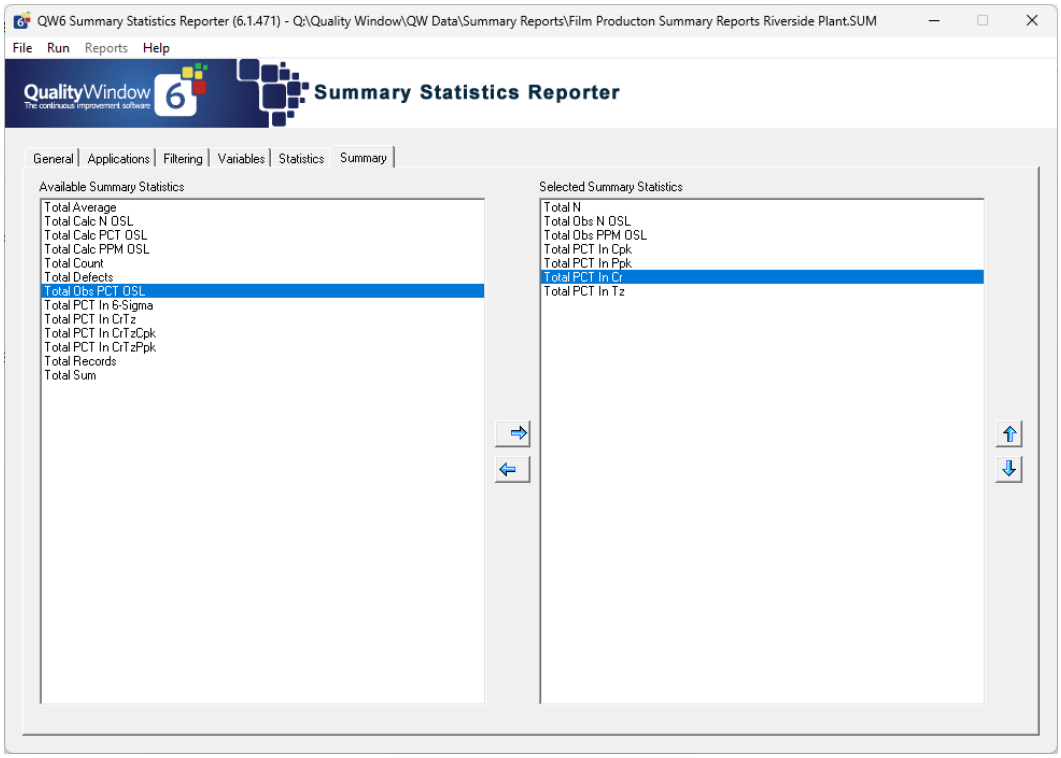
The Statistics tab controls the calculations SumStat performs for each selected variable. These are variable-level statistics rather than application-level Summary Statistics.

- Use the right arrow to add a statistic.
- Use the left arrow to remove a statistic.
- Use the up and down arrows to control the report order.
- Use Shift or Control to select multiple statistics before moving them.

When the query is run, SumStat calculates the selected statistics for the applicable application and variable combinations. Standard statistical reports consume those calculated results rather than independently recalculating each statistic from the original records.

For definitions, calculation details, and guidance on the statistics available in SumStat, see the **Quality Window Statistics Reference Guide**.

Selecting Summary Statistics



Summary Statistics are separate from the statistics calculated for an individual variable. They provide application-level summary information derived from the SumStat analysis.

Summary Statistic	Description
Total Average	Total sum of all averages of selected chartable variables for the application.
Total Calc PCT OSL	Total calculated percent of variables out of specification.
Total Calc PPM OSL	Total calculated parts per million of variables out of specification.
Total Count	Number of selected chartable variables for the application.
Total Defects	Total observed out-of-specification results for selected variables.
Total N	Total number of non-null values for selected chartable variables.
Total Obs N OSL	Total observed number of values out of specification.
Total Obs PCT	Total observed percent of values out of specification.
Total Obs PPM	Total observed parts per million out of specification.
Total PCT in 6-Sigma	Total percent of values inside 6 Sigma.

Summary Statistic	Description
Total PCT in Cpk	Total percent of values in Cpk using the configured criterion (>= 1.33).
Total PCT in Cr	Total percent of values in Cr using the configured criterion (<= 0.75).
Total PCT in Tz	Total percent of values in Tz using the configured criterion (-0.5 to +0.5).
Total PCT in CrTz	Total percent of values represented by the Cr/Tz criterion.
Total PCT in CrTzCpk	Total percent of values represented by the combined Cr/Tz/Cpk criterion.
Total Records	Number of records selected for the application.
Total Sum	Total sum of all values.

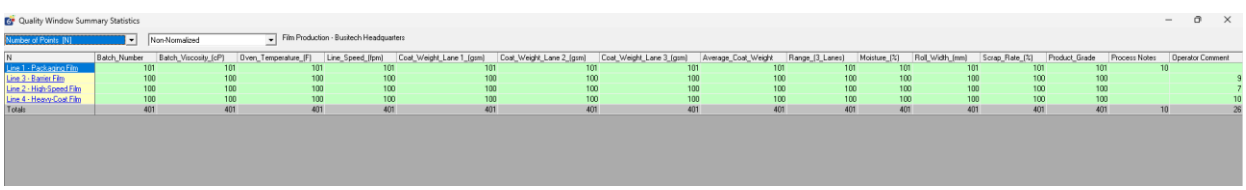
Summary results can also be normalized by the configured application volume. When Use Record Counts for Volume is enabled, record counts supply the volume basis; otherwise the Volume value entered for each application is used.

Running the Analysis

Run the configured query after the applications, Views, filters, variables, and statistics have been selected. The query processes the configured Quality Window sources and makes the calculated results available to the reporting layer.

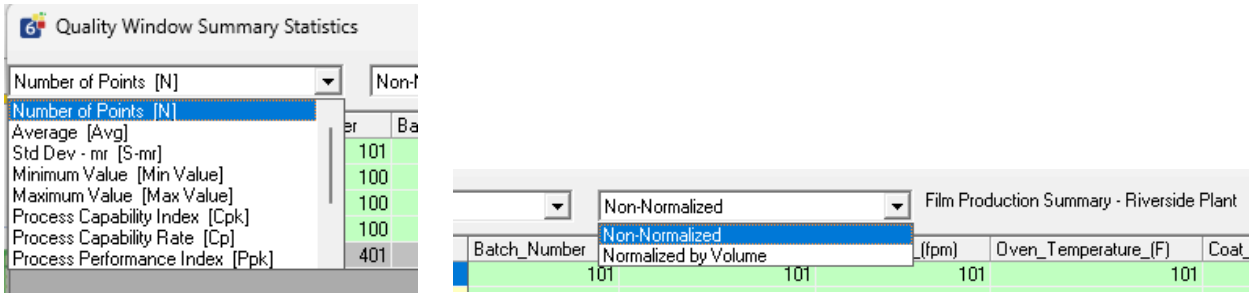
Viewing Results on Screen

The built-in Quality Window Summary Statistics window provides an interactive matrix of the query results. Use the first selector to choose the statistic displayed in the matrix. Use the second selector to switch between Non-Normalized and Normalized by Volume results where normalized values are available.



N	Batch_Number	Batch_Viscosity_[cP]	Oven_Temperature_[F]	Line_Speed_[fpm]	Coat_Weight_Lane 1_[gsm]	Coat_Weight_Lane 2_[gsm]	Coat_Weight_Lane 3_[gsm]	Average_Coat_Weight	Range_[3_Lanes]	Moisture_[%]	Roll_Width_[mm]	Scrap_Rate_[%]	Product_Grade	Process Notes	Operator Comment
Line 1 - Packaging Film	101	101	101	101	101	101	101	101	101	101	101	101	101	10	
Line 3 - Barrier Film	100	100	100	100	100	100	100	100	100	100	100	100	100		9
Line 2 - High Speed Film	100	100	100	100	100	100	100	100	100	100	100	100	100		7
Line 4 - Heavy-Coat Film	100	100	100	100	100	100	100	100	100	100	100	100	100		10
Totals	401	401	401	401	401	401	401	401	401	401	401	401	401	10	26

Quality Window Summary Statistics on-screen results



Statistic and normalization selectors

You can open this results window using View Results on Screen. If no Script Procedure to Execute after Run Query is configured, the normal interactive query workflow opens these built-in results instead of automatically running a scripted report.

Deprecated Power BI Export

Generate PowerBI Report is deprecated
The built-in Generate PowerBI Report option is retained for compatibility with existing workflows. It launches Microsoft Excel and populates a fixed workbook with Statistics, Normalized, and Summary worksheets. The workbook is not automatically saved and the output is not configurable through the SumStat reporting script. For a current Power BI integration or a custom Power BI extract using SumStat, contact Busitech Support at support@busitech.com.

Choosing a Report

The supplied reports are different ways of consuming the same SumStat analytical environment. Choose the report according to how the information will be reviewed, investigated, exported, or distributed.

Current SumStat report menu

Report	Primary Use	Output	Email Delivery
View Results on Screen	Interactive review	On-screen matrix	No
Generate PowerBI Report	Deprecated legacy Excel export	Excel workbook opened interactively	No
Out of Specification Report HTML	Specification exception investigation	HTML	Inline HTML email
Detailed Variable Report HTML	Statistics plus source observations	HTML	Inline HTML email

Report	Primary Use	Output	Email Delivery
Combined Detailed Variable Report HTML	Combined record-level investigation	HTML	Inline HTML email
Detailed Variable Report CSV	Portable detailed record data	CSV	Attachment
Combined Detailed Variable Report CSV	Combined portable detailed record data	CSV	Attachment
Dashboard Report	Rapid visual statistical status	HTML	Not supported
Summary HTML Report	Comprehensive statistical and summary review	HTML	Inline HTML email
Summary Excel Report	Further spreadsheet analysis	Excel	Attachment; unattended execution required
Summary PDF Report	Fixed document-oriented statistical report	PDF	Attachment
HatChart Report	Visual comparison of process targeting (Tz) and variation (Cr) across selected variables	Interactive chart	Not supported

View Results on Screen

Purpose	Interactive matrix of the statistical results calculated by the current SumStat query.
When to use it	Use while configuring or validating an analysis, or when you want to review individual statistics without generating a report file.
Output and delivery	Interactive only. The user can select the statistic and switch between Non-Normalized and Normalized by Volume results. No automated email delivery.

Quality Window Summary Statistics

Std Dev - mr [S-mr] | Non-Normalized | Film Production Summary - Riverside Plant

S-mr	Batch_Viscosity_(cP)	Line_Speed_(fpm)	Oven_Temperature_(F)	Coat_Weight_Lane 1_(gsm)	Coat_Weight_Lane 2_(gsm)
Line 1 - Packaging Film	4.6	2.6	4.39	0.0661	0.05
Line 2 - High-Speed Film	5.69	1.76	3.93	0.0549	0.0
Line 3 - Barrier Film	7.57	1.76	4.79	0.0692	0.06
Line 4 - Heavy-Coat Film	10.78	2.49	4.23	0.0721	0.08
Totals	28.64	8.61	17.34	0.2623	0.2

Out of Specification Report HTML

Purpose	Identifies values that fall outside configured fixed specification limits and summarizes the resulting exception events.
When to use it	Use when the quality team needs to identify where specification failures occurred and investigate the affected variables and observations.
Output and delivery	HTML is saved to the Report Output Location. The report can be emailed as inline HTML content. Calculated limits are not treated as specification limits.

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Out of Specification Report

Film Production Summary - Riverside Plant

FILTER SUMMARY

WHERE DateTime BETWEEN '2026-01-01 00:00:00'
AND '2026-10-01 15:01:21'

Line 1 - Packaging Film Records: 101

Executive Summary

Records Evaluated	101	Variables Evaluated	11
Out of Spec Events	3	Variables With OOS Events	3

Variable Ranking

Highest OOS percentage first; ties are ranked by OOS count.

Variable	Records	OOS Count	OOS %	Low	High	Min	Max	LSL	USL
Line Speed (fpm)	101	1	0.99%		1	134.6	150.3	130	150
Coat Weight Lane 3 (gsm)	101	1	0.99%		1	5.815	6.6	5.6	6.4
Range (3 Lanes)	101	1	0.99%		1	0.009	0.639	0	0.35

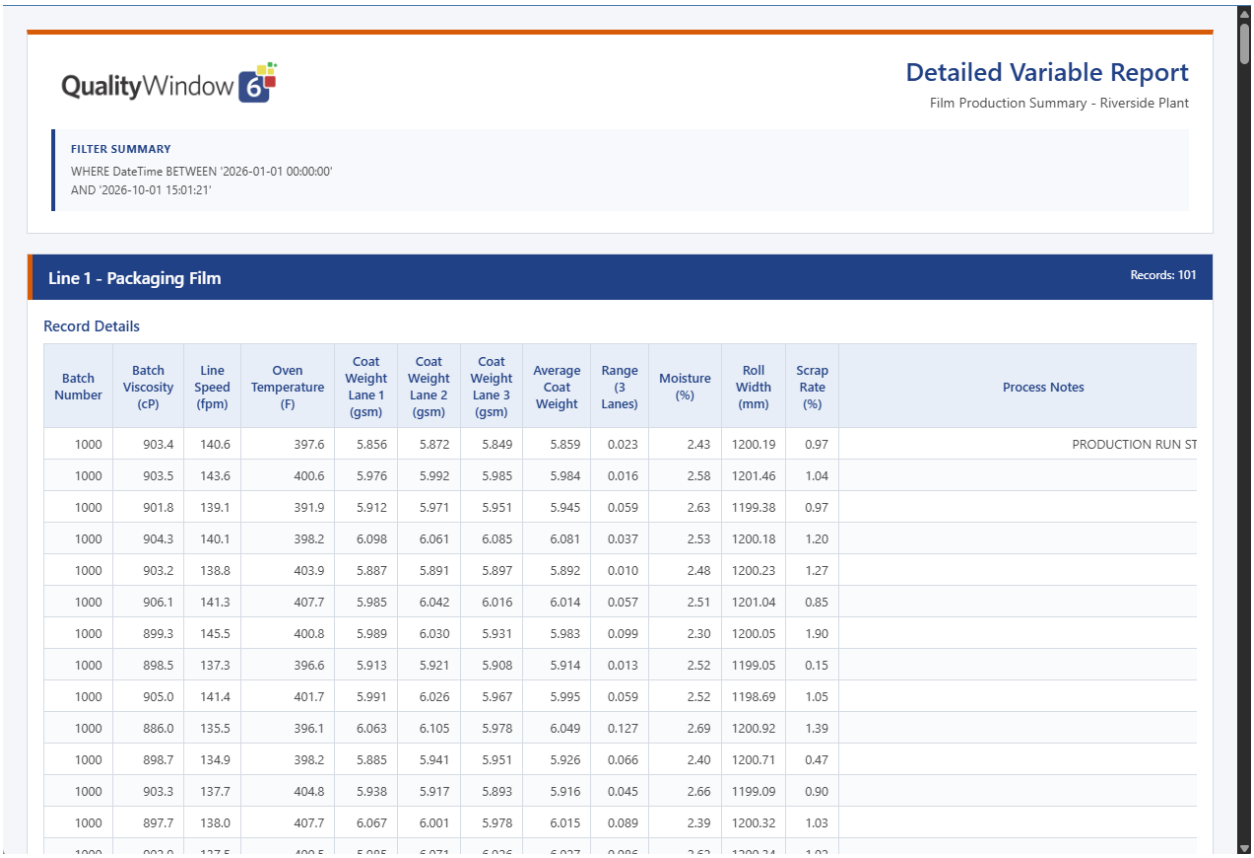
OOS Events Events: 3

Most recent OOS events first.

Record	Variable	Value	Failed Limit	Limit Value
522 - 2026-08-19 09:28:35	Line Speed (fpm)	150.3	USL	150
1004 - 2026-07-12 22:00:00	Range (3 Lanes)	0.639	USL	0.35

Detailed Variable Report HTML

Purpose	Combines statistical results with the individual record-level observations used in the analysis grouped by each Application.
When to use it	Use when a statistical result requires deeper investigation and the reviewer needs to see the observations behind the result.
Output and delivery	HTML is saved to the Report Output Location and can be emailed as inline HTML content.



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Detailed Variable Report

Film Production Summary - Riverside Plant

FILTER SUMMARY

WHERE DateTime BETWEEN '2026-01-01 00:00:00'
AND '2026-10-01 15:01:21'

Line 1 - Packaging Film

Records: 101

Record Details

Batch Number	Batch Viscosity (cP)	Line Speed (fpm)	Oven Temperature (F)	Coat Weight Lane 1 (gsm)	Coat Weight Lane 2 (gsm)	Coat Weight Lane 3 (gsm)	Average Coat Weight	Range (3 Lanes)	Moisture (%)	Roll Width (mm)	Scrap Rate (%)	Process Notes
1000	903.4	140.6	397.6	5.856	5.872	5.849	5.859	0.023	2.43	1200.19	0.97	PRODUCTION RUN ST
1000	903.5	143.6	400.6	5.976	5.992	5.985	5.984	0.016	2.58	1201.46	1.04	
1000	901.8	139.1	391.9	5.912	5.971	5.951	5.945	0.059	2.63	1199.38	0.97	
1000	904.3	140.1	398.2	6.098	6.061	6.085	6.081	0.037	2.53	1200.18	1.20	
1000	903.2	138.8	403.9	5.887	5.891	5.897	5.892	0.010	2.48	1200.23	1.27	
1000	906.1	141.3	407.7	5.985	6.042	6.016	6.014	0.057	2.51	1201.04	0.85	
1000	899.3	145.5	400.8	5.989	6.030	5.931	5.983	0.099	2.30	1200.05	1.90	
1000	898.5	137.3	396.6	5.913	5.921	5.908	5.914	0.013	2.52	1199.05	0.15	
1000	905.0	141.4	401.7	5.991	6.026	5.967	5.995	0.059	2.52	1198.69	1.05	
1000	886.0	135.5	396.1	6.063	6.105	5.978	6.049	0.127	2.69	1200.92	1.39	
1000	898.7	134.9	398.2	5.885	5.941	5.951	5.926	0.066	2.40	1200.71	0.47	
1000	903.3	137.7	404.8	5.938	5.917	5.893	5.916	0.045	2.66	1199.09	0.90	
1000	897.7	138.0	407.7	6.067	6.001	5.978	6.015	0.089	2.39	1200.32	1.03	

Combined Detailed Variable Report HTML

Purpose	Combines the record-level information from all participating applications into one detailed report.
When to use it	Use when a combined data set is more useful than application-by-application detailed sections.
Output and delivery	HTML is saved to the Report Output Location and can be emailed as inline HTML content.

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Combined Detailed Variable Report

Film Production Summary - Riverside Plant

FILTER SUMMARY

WHERE DateTime BETWEEN '2026-01-01 00:00:00'
AND '2026-10-01 15:01:21'

Record Details Records: 401

Batch Number	Batch Viscosity (cP)	Line Speed (fpm)	Oven Temperature (F)	Coat Weight Lane 1 (gsm)	Coat Weight Lane 2 (gsm)	Coat Weight Lane 3 (gsm)	Average Coat Weight	Range (3 Lanes)	Moisture (%)	Roll Width (mm)	Scrap Rate (%)	Operator Comment
1000	903.4	140.6	397.6	5.856	5.872	5.849	5.859	0.023	2.43	1200.19	0.97	
1000	903.5	143.6	400.6	5.976	5.992	5.985	5.984	0.016	2.58	1201.46	1.04	
1000	901.8	139.1	391.9	5.912	5.971	5.951	5.945	0.059	2.63	1199.38	0.97	
1000	904.3	140.1	398.2	6.098	6.061	6.085	6.081	0.037	2.53	1200.18	1.20	
1000	903.2	138.8	403.9	5.887	5.891	5.897	5.892	0.010	2.48	1200.23	1.27	
1000	906.1	141.3	407.7	5.985	6.042	6.016	6.014	0.057	2.51	1201.04	0.85	
1000	899.3	145.5	400.8	5.989	6.030	5.931	5.983	0.099	2.30	1200.05	1.90	
1000	898.5	137.3	396.6	5.913	5.921	5.908	5.914	0.013	2.52	1199.05	0.15	
1000	905.0	141.4	401.7	5.991	6.026	5.967	5.995	0.059	2.52	1198.69	1.05	
1000	886.0	135.5	396.1	6.063	6.105	5.978	6.049	0.127	2.69	1200.92	1.39	
1000	898.7	134.9	398.2	5.885	5.941	5.951	5.926	0.066	2.40	1200.71	0.47	
1000	903.3	137.7	404.8	5.938	5.917	5.893	5.916	0.045	2.66	1199.09	0.90	
1000	897.7	138.0	407.7	6.067	6.001	5.978	6.015	0.089	2.39	1200.32	1.03	
1000	902.9	137.5	400.5	5.985	6.071	6.026	6.027	0.086	2.62	1200.34	1.02	

Detailed Variable Report CSV

Purpose	Exports the detailed record-level information captured for the analysis in a portable CSV format grouped by Application.
When to use it	Use when the underlying detailed data is needed outside the formatted SumStat reports.
Output and delivery	CSV is saved to the Report Output Location and can be emailed as an attachment.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Detailed Variable Report														
2	Film Production Summary - Riverside Plant														
3	Configura	Q:\Quality Window\QW Data\Summary Reports\Film Producton Summary Reports Riverside Plant.SUM													
4	Filter Sum	WHERE DateTime BETWEEN '2026-01-01 00:00:00' | AND '2026-10-01 15:01:21'													
5															
6	Applicatic	Line 1 - Packaging Film													
7	Records	101													
8	Record Details														
9	Batch Nur	Batch Visc	Line Speec	Oven Tem	Coat Weig	Coat Weig	Coat Weig	Average C	Range (3 L	Moisture (	Roll Width	Scrap Rat	Process Notes		
10	1000	903.4	140.6	397.6	5.856	5.872	5.849	5.859	0.023	2.43	1200.19	0.97	PRODUCTION RUN STARTED.		
11	1000	903.5	143.6	400.6	5.976	5.992	5.985	5.984	0.016	2.58	1201.46	1.04			
12	1000	901.8	139.1	391.9	5.912	5.971	5.951	5.945	0.059	2.63	1199.38	0.97			
13	1000	904.3	140.1	398.2	6.098	6.061	6.085	6.081	0.037	2.53	1200.18	1.2			
14	1000	903.2	138.8	403.9	5.887	5.891	5.897	5.892	0.01	2.48	1200.23	1.27			
15	1000	906.1	141.3	407.7	5.985	6.042	6.016	6.014	0.057	2.51	1201.04	0.85			
16	1000	899.3	145.5	400.8	5.989	6.03	5.931	5.983	0.099	2.3	1200.05	1.9			
17	1000	898.5	137.3	396.6	5.913	5.921	5.908	5.914	0.013	2.52	1199.05	0.15			
18	1000	905	141.4	401.7	5.991	6.026	5.967	5.995	0.059	2.52	1198.69	1.05			
19	1000	886	135.5	396.1	6.063	6.105	5.978	6.049	0.127	2.69	1200.92	1.39			
20	1000	898.7	134.9	398.2	5.885	5.941	5.951	5.926	0.066	2.4	1200.71	0.47			
21	1000	903.3	137.7	404.8	5.938	5.917	5.893	5.916	0.045	2.66	1199.09	0.9			
22	1000	897.7	138	407.7	6.067	6.001	5.978	6.015	0.089	2.39	1200.32	1.03			
23	1000	902.9	137.5	400.5	5.985	6.071	6.026	6.027	0.086	2.62	1200.34	1.02			

Film Producton Summary Reports

BUSITECH

Combined Detailed Variable Report CSV

Purpose	Provides the same combined record-level content as the Combined Detailed Variable HTML report without the HTML branding and presentation.
When to use it	Use when combined detailed data from the participating applications is required as a portable data extract.
Output and delivery	CSV is saved to the Report Output Location and can be emailed as an attachment.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Combined Detailed Variable Report															
2	Film Production Summary - Riverside Plant															
3	Configura	Q:\Quality Window\QW Data\Summary Reports\Film Producton Summary Reports Riverside Plant.SUM														
4	Filter Sum	WHERE DateTime BETWEEN '2026-01-01 00:00:00' | AND '2026-10-01 15:01:21'														
5	Records	401														
6																
7	Record Details															
8	Batch Nur	Batch Visc	Line Speec	Oven Tem	Coat Weig	Coat Weig	Coat Weig	Average C	Range (3 L	Moisture (	Roll Width	Scrap Rate	Operator (	Process Notes		
9	1000	903.4	140.6	397.6	5.856	5.872	5.849	5.859	0.023	2.43	1200.19	0.97		PRODUCTION RUN STARTED.		
10	1000	903.5	143.6	400.6	5.976	5.992	5.985	5.984	0.016	2.58	1201.46	1.04				
11	1000	901.8	139.1	391.9	5.912	5.971	5.951	5.945	0.059	2.63	1199.38	0.97				
12	1000	904.3	140.1	398.2	6.098	6.061	6.085	6.081	0.037	2.53	1200.18	1.2				
13	1000	903.2	138.8	403.9	5.887	5.891	5.897	5.892	0.01	2.48	1200.23	1.27				
14	1000	906.1	141.3	407.7	5.985	6.042	6.016	6.014	0.057	2.51	1201.04	0.85				
15	1000	899.3	145.5	400.8	5.989	6.03	5.931	5.983	0.099	2.3	1200.05	1.9				
16	1000	898.5	137.3	396.6	5.913	5.921	5.908	5.914	0.013	2.52	1199.05	0.15				
17	1000	905	141.4	401.7	5.991	6.026	5.967	5.995	0.059	2.52	1198.69	1.05				
18	1000	886	135.5	396.1	6.063	6.105	5.978	6.049	0.127	2.69	1200.92	1.39				
19	1000	898.7	134.9	398.2	5.885	5.941	5.951	5.926	0.066	2.4	1200.71	0.47				
20	1000	903.3	137.7	404.8	5.938	5.917	5.893	5.916	0.045	2.66	1199.09	0.9				
21	1000	897.7	138	407.7	6.067	6.001	5.978	6.015	0.089	2.39	1200.32	1.03				
22	1000	902.9	137.5	400.5	5.985	6.071	6.026	6.027	0.086	2.62	1200.34	1.02				
23	1000	901.7	141.7	398.9	6.124	6.1	6.146	6.123	0.046	2.51	1200.67	0.89				

Film Producton Summary Reports

Dashboard Report

Purpose	Provides a visual overview of selected statistical results and highlighting across the configured analysis.
When to use it	Use when the primary requirement is rapid visual review across applications and variables rather than detailed numeric investigation.
Output and delivery	Generated for interactive/file-based review. Automated email delivery is not currently supported.

QualityWindow 6

Film Production Summary - Riverside Plant

Line 1 - Packaging Film	
Batch Number	
Batch Viscosity (cP)	
N:	101
Avg:	903.65
S-mr:	4.6
Min Value:	883.5
Max Value:	921.6
Cpk:	2.86
Cp:	3.09
Ppk:	1.82
Pp:	1.96
Tz:	0.4
Cr:	0.51
Line Speed (fpm)	
Oven Temperature (F)	
Coat Weight Lane 1 (gsm)	
Coat Weight Lane 2 (gsm)	
Coat Weight Lane 3 (gsm)	
Average Coat Weight	

Line 3 - Barrier Film
Batch Number
Batch Viscosity (cP)
Line Speed (fpm)
Oven Temperature (F)
Coat Weight Lane 1 (gsm)
Coat Weight Lane 2 (gsm)
Coat Weight Lane 3 (gsm)
Average Coat Weight
Range (3 Lanes)
Moisture (%)
Roll Width (mm)
Scrap Rate (%)
Operator Comment
Line 4 - Heavy-Coat Film

Summary HTML Report

Purpose	Provides a comprehensive browser-readable representation of selected statistics, normalized results, Summary Statistics, volume information, and totals.
When to use it	Use when a broad statistical and summary report should be reviewed in a browser or directly within an email message.
Output and delivery	HTML is saved to the Report Output Location and can be emailed as inline HTML content.

Average

Application	Batch Number	Batch Viscosity (cP)	Line Speed (fpm)	Oven Temperature (F)	Coat Weight Lane 1 (gsm)	Coat Weight Lane 2 (gsm)	Coat Weight Lane 3 (gsm)	Average Coat Weight	Range (3 Lanes)	Moisture (%)	Roll Width (mm)	Scrap Rate (%)
Line 1 - Packaging Film		903.65	140.26	400.77	5.9913	5.9996	5.9808	5.9905	0.0679	2.491	1199.991	1.042
Line 2 - High-Speed Film		880.51	150.48	395.27	5.4071	5.3959	5.3925	5.3984	0.0963	2.202	1250	0.887
Line 3 - Barrier Film		930.39	130.22	409.89	6.6041	6.6067	6.6116	6.6075	0.1293	2.02	1200.07	1.102
Line 4 - Heavy-Coat Film		962.44	120.73	419.04	7.3909	7.3679	7.3783	7.379	0.1356	2.599	1300.149	1.584
Totals	0	3676.99	541.69	1624.97	25.3934	25.3701	25.3632	25.3754	0.4291	9.312	4950.21	4.615

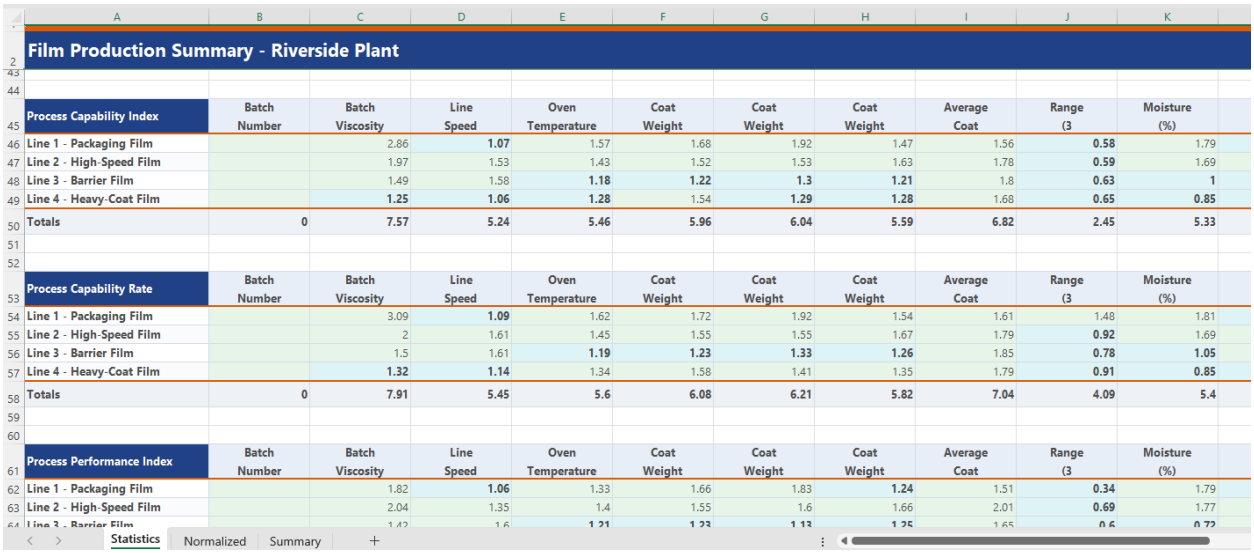
Std Dev - mr

Application	Batch Number	Batch Viscosity (cP)	Line Speed (fpm)	Oven Temperature (F)	Coat Weight Lane 1 (gsm)	Coat Weight Lane 2 (gsm)	Coat Weight Lane 3 (gsm)	Average Coat Weight	Range (3 Lanes)	Moisture (%)	Roll Width (mm)	Scrap Rate (%)	Oper
Line 1 - Packaging Film		4.6	2.6	4.39	0.0661	0.0591	0.0738	0.0618	0.0335	0.11	0.735	0.353	
Line 2 - High-Speed Film		5.69	1.76	3.93	0.0549	0.055	0.0511	0.0397	0.0465	0.101	0.526	0.212	
Line 3 - Barrier Film		7.57	1.76	4.79	0.0692	0.0641	0.0676	0.0398	0.0582	0.108	0.627	0.333	
Line 4 - Heavy-Coat Film		10.78	2.49	4.23	0.0721	0.0808	0.0839	0.0557	0.0595	0.133	0.774	0.397	
Totals	0	28.64	8.61	17.34	0.2623	0.259	0.2764	0.197	0.1977	0.452	2.662	1.295	

Minimum Value

Summary Excel Report

Purpose	Creates an Excel workbook containing Statistics, Normalized, and Summary worksheets.
When to use it	Use when the SumStat results need further spreadsheet analysis, formatting, or integration into a workbook-based workflow.
Output and delivery	Excel is saved to the Report Output Location and can be emailed as an attachment. Email delivery is supported only during unattended execution because the workbook must be completed and closed before it can be attached.



Film Production Summary - Riverside Plant

Process Capability Index	Batch Number	Batch Viscosity	Line Speed	Oven Temperature	Coat Weight	Coat Weight	Coat Weight	Average Coat	Range (3	Moisture (%)
Line 1 - Packaging Film		2.86	1.07	1.57	1.68	1.92	1.47	1.56	0.58	1.79
Line 2 - High-Speed Film		1.97	1.53	1.43	1.52	1.53	1.63	1.78	0.59	1.69
Line 3 - Barrier Film		1.49	1.58	1.18	1.22	1.3	1.21	1.8	0.63	1
Line 4 - Heavy-Coat Film		1.25	1.06	1.28	1.54	1.29	1.28	1.68	0.65	0.85
Totals	0	7.57	5.24	5.46	5.96	6.04	5.59	6.82	2.45	5.33

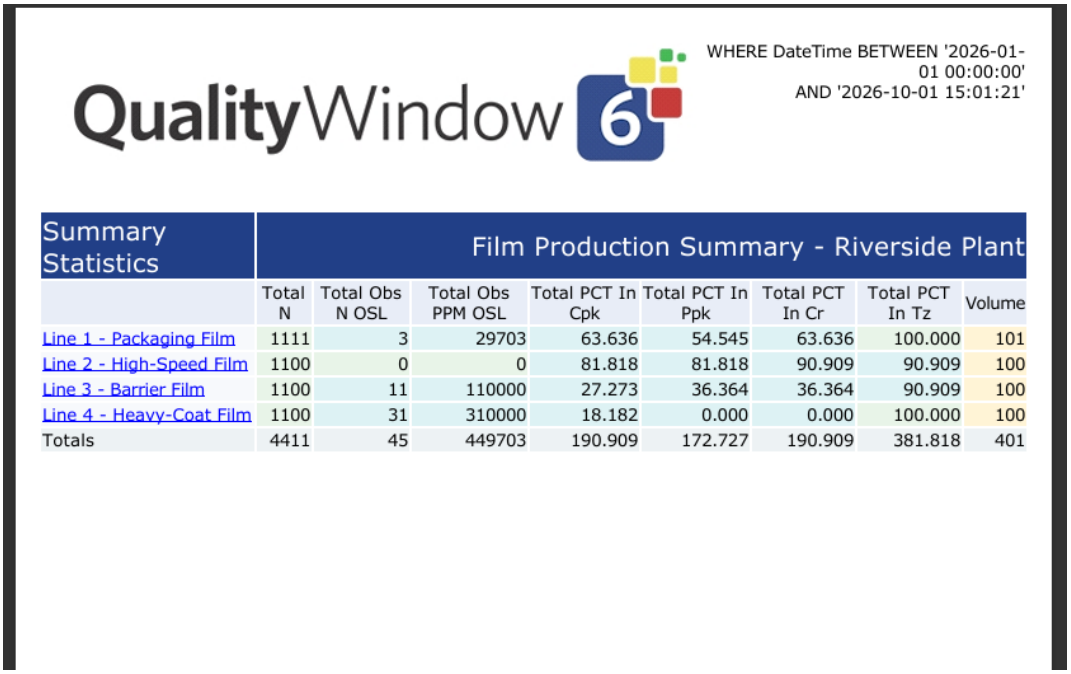
Process Capability Rate	Batch Number	Batch Viscosity	Line Speed	Oven Temperature	Coat Weight	Coat Weight	Coat Weight	Average Coat	Range (3	Moisture (%)
Line 1 - Packaging Film		3.09	1.09	1.62	1.72	1.92	1.54	1.61	1.48	1.81
Line 2 - High-Speed Film		2	1.61	1.45	1.55	1.55	1.67	1.79	0.92	1.69
Line 3 - Barrier Film		1.5	1.61	1.19	1.23	1.33	1.26	1.85	0.78	1.05
Line 4 - Heavy-Coat Film		1.32	1.14	1.34	1.58	1.41	1.35	1.79	0.91	0.85
Totals	0	7.91	5.45	5.6	6.08	6.21	5.82	7.04	4.09	5.4

Process Performance Index	Batch Number	Batch Viscosity	Line Speed	Oven Temperature	Coat Weight	Coat Weight	Coat Weight	Average Coat	Range (3	Moisture (%)
Line 1 - Packaging Film		1.82	1.06	1.33	1.66	1.83	1.24	1.51	0.34	1.79
Line 2 - High-Speed Film		2.04	1.35	1.4	1.55	1.6	1.66	2.01	0.69	1.77
Line 3 - Barrier Film		1.42	1.6	1.21	1.23	1.13	1.25	1.65	0.6	0.72

Statistics | Normalized | Summary

Summary PDF Report

Purpose	Creates a fixed document-oriented presentation of the SumStat statistical results.
When to use it	Use when the output should be distributed, archived, or retained as a fixed document.
Output and delivery	PDF is saved to the Report Output Location and can be emailed as an attachment.

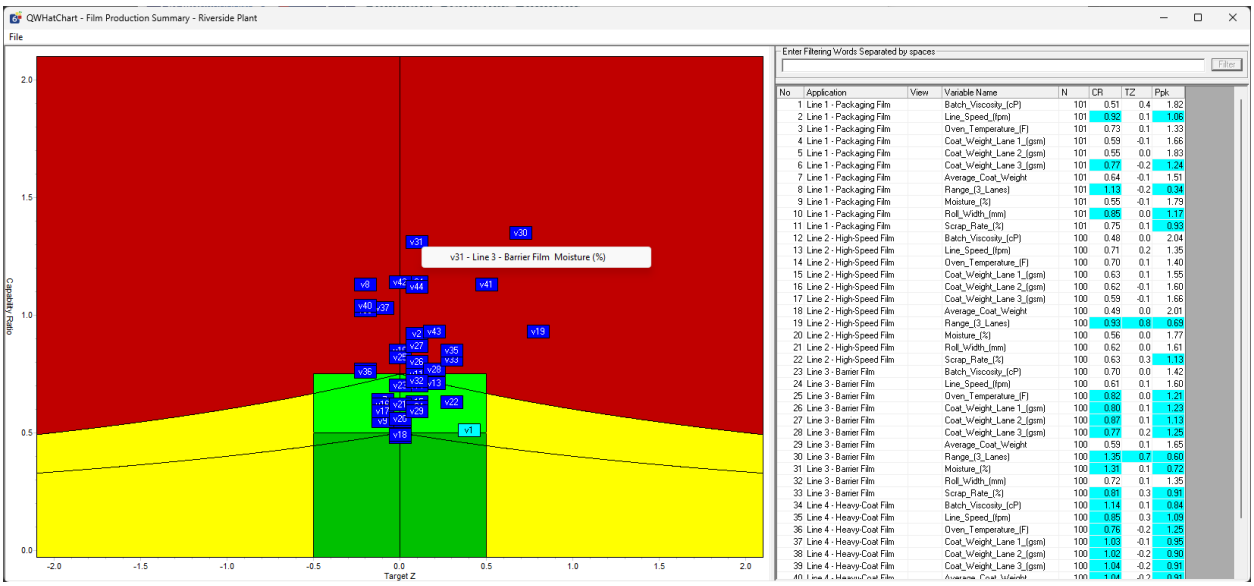


WHERE DateTime BETWEEN '2026-01-01 00:00:00' AND '2026-10-01 15:01:21'

Summary Statistics	Film Production Summary - Riverside Plant							
	Total N	Total Obs N OSL	Total Obs PPM OSL	Total PCT In Cpk	Total PCT In Ppk	Total PCT In Cr	Total PCT In Tz	Volume
Line 1 - Packaging Film	1111	3	29703	63.636	54.545	63.636	100.000	101
Line 2 - High-Speed Film	1100	0	0	81.818	81.818	90.909	90.909	100
Line 3 - Barrier Film	1100	11	110000	27.273	36.364	36.364	90.909	100
Line 4 - Heavy-Coat Film	1100	31	310000	18.182	0.000	0.000	100.000	100
Totals	4411	45	449703	190.909	172.727	190.909	381.818	401

HatChart Report

Purpose	Provides a visual overview of process performance across all selected variables by comparing targeting (Tz) and variation (Cr). The HatChart makes it easy to identify variables with targeting issues, excessive variation, or both.
When to use it	Use when you want a quick visual comparison of targeting (Tz) and variation (Cr) across variables to identify which processes may need attention.
Output and delivery	Interactive chart. Automated email delivery is not currently supported.



Generate PowerBI Report

The built-in Generate PowerBI Report option is deprecated. It launches Microsoft Excel and creates a fixed workbook containing Statistics, Normalized, and Summary worksheets. It does not automatically save the workbook and cannot be customized through the SumStat reporting script.

For a current Power BI integration or a custom Power BI extract using SumStat, contact Busitech Support at support@busitech.com.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Number o	Batch_Nu	Batch_Vis	Line_Spee	Oven_Tem	Coat_Weig	Coat_Weig	Coat_Weig	Average_C	Range_(3_	Moisture_	Roll_Widt	Scrap_Rat	Operator (	Process N	Volume
2	Line 1 - Pa	101	101	101	101	101	101	101	101	101	101	101	101		10	101
3	Line 2 - Hi	100	100	100	100	100	100	100	100	100	100	100	100	7		100
4	Line 3 - Ba	100	100	100	100	100	100	100	100	100	100	100	100	9		100
5	Line 4 - He	100	100	100	100	100	100	100	100	100	100	100	100	10		100
6	Totals	401	401	401	401	401	401	401	401	401	401	401	401	26	10	401
7																
8																
9	Average	Batch_Nu	Batch_Vis	Line_Spee	Oven_Tem	Coat_Weig	Coat_Weig	Coat_Weig	Average_C	Range_(3_	Moisture_	Roll_Widt	Scrap_Rat	Operator (	Process N	Volume
10	Line 1 - Packaging Fi		903.65	140.26	400.77	5.9913	5.9996	5.9808	5.9905	0.0679	2.491	1199.991	1.042			101
11	Line 2 - High-Speed F		880.51	150.48	395.27	5.4071	5.3959	5.3925	5.3984	0.0963	2.202	1250	0.887			100
12	Line 3 - Barrier Film		930.39	130.22	409.89	6.6041	6.6067	6.6116	6.6075	0.1293	2.02	1200.07	1.102			100
13	Line 4 - Heavy-Coat F		962.44	120.73	419.04	7.3909	7.3679	7.3783	7.379	0.1356	2.599	1300.149	1.584			100
14	Totals	0	3676.99	541.69	1624.97	25.3934	25.3701	25.3632	25.3754	0.4291	9.312	4950.21	4.615	0	0	401
15																
16																
17	Std Dev - n	Batch_Nu	Batch_Vis	Line_Spee	Oven_Tem	Coat_Weig	Coat_Weig	Coat_Weig	Average_C	Range_(3_	Moisture_	Roll_Widt	Scrap_Rat	Operator (	Process N	Volume
18	Line 1 - Packaging Fi		4.6	2.6	4.39	0.0661	0.0591	0.0738	0.0618	0.0335	0.11	0.735	0.353			101
19	Line 2 - High-Speed F		5.69	1.76	3.93	0.0549	0.055	0.0511	0.0397	0.0465	0.101	0.526	0.212			100
20	Line 3 - Barrier Film		7.57	1.76	4.79	0.0692	0.0641	0.0676	0.0398	0.0582	0.108	0.627	0.333			100
21	Line 4 - Heavy-Coat F		10.78	2.49	4.23	0.0721	0.0808	0.0839	0.0557	0.0595	0.133	0.774	0.397			100
22	Totals	0	28.64	8.61	17.34	0.2623	0.259	0.2764	0.197	0.1977	0.452	2.662	1.295	0	0	401
23																
24																
25	Minimum	Batch_Nu	Batch_Vis	Line_Spee	Oven_Tem	Coat_Weig	Coat_Weig	Coat_Weig	Average_C	Range_(3_	Moisture_	Roll_Widt	Scrap_Rat	Operator (	Process N	Volume
26	Line 1 - Packaging Fi		883.5	134.6	387.9	5.769	5.862	5.815	5.828	0.009	2.11	1197.31	0.15			101
27	Line 2 - High-Speed F		864.6	145.4	385.3	5.273	5.263	5.23	5.31	0.005	1.93	1248.42	0.12			100
28	Line 3 - Barrier Film		900.6	125.4	399.6	6.419	6.393	6.428	6.492	0.019	1.66	1198.66	0.05			100
29	Line 4 - Heavy-Coat F		929.6	114.2	404.7	6.847	6.817	6.86	6.842	0.019	2.28	1296.35	0.47			100
30	Totals	0	3578.3	519.6	1577.5	24.308	24.335	24.333	24.472	0.052	7.98	4940.74	0.79	0	0	401

Statistics | Normalized | Summary

Running Detailed and OOS Reports Directly

Detailed Variable, Combined Detailed Variable, CSV, and Out of Specification reports require record-level information collected while SumStat processes the Quality Window sources. When these reports are run directly, the current reporting script refreshes the required query data before generating the report so the detailed information is current.

Performance Considerations for Detailed Reports

Standard statistical reports primarily use results already calculated by SumStat. Detailed Variable reports require individual source values and therefore require additional record-level processing and data retention.

The processing requirement for a detailed report grows approximately with:

Detailed reports process record-level data across the selected applications, records, and variables. Increasing any of these increases the processing workload.

For large analyses, use a statistical or summary report when record-level detail is not required. Use Detailed Variable reporting when the underlying observations are necessary. The Out of Specification report provides a middle ground because it inspects individual records but retains exception information rather than the complete detailed data set.

Custom Reporting

SumStat can be adapted by Busitech to support custom reporting requirements that are not addressed by the standard reports. This can include reports designed around specific customer, process, or operational requirements.

If you have a unique reporting requirement or would like to discuss adapting SumStat for a specific use case, contact Busitech Support at **support@busitech.com**

Saving and Reusing a Configuration

After the configuration produces the intended results, save it as a .SUM file. A saved configuration can be reopened interactively, modified, run again, saved under another name, or executed unattended.

For recurring reporting, configure and verify the analysis interactively before scheduling it. This ensures that the same tested analytical definition is reused each time the report runs.

Unattended and Scheduled Execution

SumStat supports unattended execution, sometimes referred to technically as headless execution. In unattended mode, the saved configuration runs without a user operating the SumStat interface.

Double-Clicking a SUM File

A .SUM file can be executed through its Windows file association by double-clicking the file. The saved configuration runs unattended rather than opening as a normal interactive editing session.

Running SumStat from a Command Line or Scheduler

A scheduler can launch the saved .SUM file directly or call the SumStat executable and pass the .SUM file path as an argument:

```
"C:\Program Files (x86)\Busitech\QW6\QW6SumStat.exe" "<pathToSUM file>"
```

The same command can be used by the Quality Window Task Scheduler or another Windows scheduling mechanism when appropriate.

Requirement for Automatic Report Output

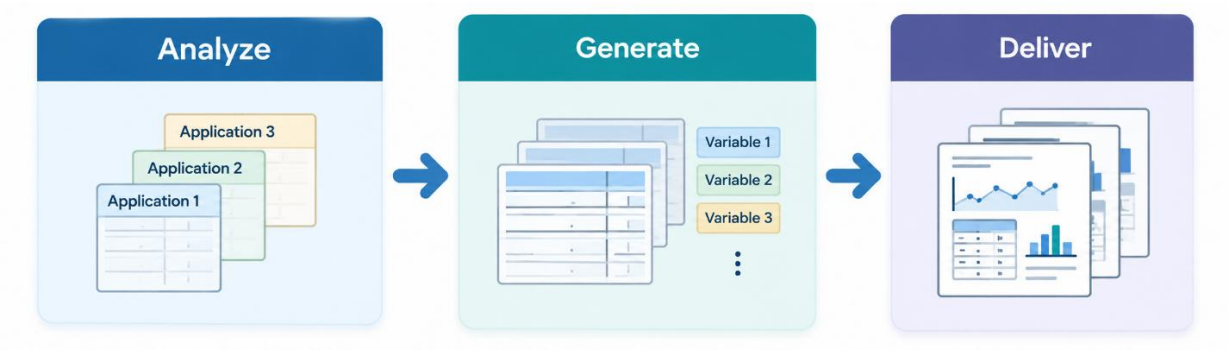
Before using a .SUM file for unattended reporting, configure Script Procedure to Execute after Run Query on the General tab and save the configuration. The selected procedure determines which scripted report or custom automation runs after the query.

Report Output for Unattended Runs

Set Report Output Location when unattended output should always be written to a specific folder. If the field is blank, SumStat uses the folder containing the loaded .SUM file; if no .SUM file is loaded, it uses C:\Busitech\QW6\SumStat Reports.

Emailing SumStat Reports

SumStat can automatically email supported reports after they are generated. This extends the unattended workflow from report generation to report delivery so recipients can receive recurring quality information without operating SumStat themselves.



Analyze -> Generate -> Deliver

Quality Window Email Configuration

SumStat uses the email infrastructure configured for Quality Window. It does not maintain separate SMTP server settings, credentials, ports, or a separate sender configuration. Before enabling SumStat email delivery, configure and test Quality Window email functionality in QW Admin.

See the Quality Window Email Notifications - Administration Guide for the Quality Window email server configuration and test procedure.

Report-Specific Email Configuration

Email delivery is configured independently for each supported report through the active SumStat reporting script. Configuration controls whether the report is emailed and who receives it. Multiple recipients can be configured by separating email addresses with commas, for example:

```
email1@domain.com,email2@domain.com
```

The Busitech default reporting script ships with report email delivery disabled and recipient values blank. SumStat scripting and email configuration should be performed with guidance from Busitech Support.

Email Only During Unattended Execution

SumStat can be configured so automated email is sent only during unattended execution. This setting is not enabled by default. Enabling it is useful when administrators need to open a .SUM configuration, run queries, and test reports interactively without sending email, while allowing the same saved configuration to send reports when it runs automatically.

```
Interactive execution -> generate and review without automatic email
Unattended execution -> generate report and send configured email
```

Supported Email Delivery

Report	Email Format	Unattended Required for Email
Out of Specification Report HTML	Inline HTML content	No
Detailed Variable Report HTML	Inline HTML content	No
Combined Detailed Variable Report HTML	Inline HTML content	No
Detailed Variable Report CSV	CSV attachment	No
Combined Detailed Variable Report CSV	CSV attachment	No
Summary HTML Report	Inline HTML content	No
Summary PDF Report	PDF attachment	No
Summary Excel Report	Excel attachment	Yes
Dashboard Report	Not supported	-
HatChart Report	Not supported	-

All emailed reports are also saved to the applicable Report Output Location. HTML reports use the generated report as the email body; file-based PDF, CSV, and Excel reports are attached to the message.

Email Identification

Automated SumStat email subjects are built from the configured report information using the pattern:

```
QW <Report Title> - <Report Location>
```

For attachment-based reports, the email body also identifies the report using the configured Report Title and Report Location. This keeps report and email identification aligned with the .SUM configuration.

Recommended Automated Email Workflow

1. Configure and test Quality Window email functionality in QW Admin.
2. Create or open the required SumStat configuration.
3. Configure the applications, Views, filters, variables, statistics, and report behavior.
4. Save the configuration as a .SUM file.
5. With Busitech guidance, enable email for the required report and configure the recipient or recipients in the active SumStat reporting script.
6. Configure email-only-during-unattended-execution behavior where appropriate.
7. Test the SumStat query and report interactively.
8. Test the intended unattended execution and email delivery.
9. Configure recurring execution through the Quality Window Task Scheduler when required.
10. Verify the complete unattended workflow, including report generation, file output, and email delivery.

Email Failure Behavior

If report generation succeeds but email delivery fails, the generated report remains in the Report Output Location. The email failure otherwise occurs without a user-facing error during unattended execution. Review the Quality Window log files under ProgramData for the associated error details.

Report Customization and Scripting

SumStat includes a VBScript-based reporting architecture. The supplied report procedures are implemented through this scripting layer, and the same environment can support customer-specific reports and automation.

At an administrator level, it is enough to understand that SumStat scripts can work with the current configuration, selected applications and variables, statistical and Summary Statistics results, report context, output locations, and record-level data when a report requires it.

Public report procedures can appear in the Reports menu and can also be selected in Script Procedure to Execute after Run Query for unattended execution. Custom procedures can generate reports or participate in other integrations, such as writing results to another database or ERP process.

The complete object model, lifecycle callbacks, result objects, methods, scripting examples, and custom-report development details belong in the separate SumStat SDK and Scripting Reference rather than this Administrator Guide. To gain access to our SDK documentation please contact Busitech support support@busitech.com.

Busitech assistance
SumStat scripting, report customization, email delivery, automation, and script updates should be configured with guidance from Busitech. Contact support@busitech.com for assistance.

Updating the SumStat Reporting Script

Most of the extended SumStat report family, automated email delivery, and other script-based behavior are provided by the SumStat reporting script. The installed Quality Window build and the active SumStat script therefore need to be considered separately.

Latest Busitech Default Script

Quality Window installs the latest Busitech-supplied default SumStat reporting script at:

```
C:\ProgramData\Busitech\QW6\DEFAULT_QWSUMSTAT.QWX6
```

This file represents the current Busitech default delivered with the installed Quality Window build.

Active Shared Config Script

The script actually used by a site or user is QWSUMSTAT.QWX6 in the applicable Quality Window Shared Config location. The location varies by environment. For example:

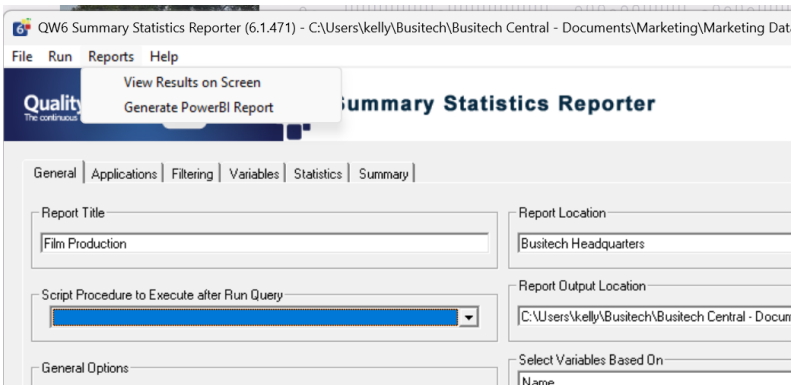
```
Q:\Quality Window\QW Config\QWSUMSTAT.QWX6
```

An active Shared Config script may contain report settings, output settings, email recipients, email enablement, or other customer-specific customizations.

No Automatic Copy or Replacement

Quality Window does not automatically copy the default SumStat script into Shared Config, and an installed update does not automatically replace an existing active QWSUMSTAT.QWX6 file. This protects site-specific configuration and customization from being overwritten.

If no active QWSUMSTAT.QWX6 script is available through Shared Config, SumStat exposes only the built-in View Results on Screen and deprecated Generate PowerBI Report options. The additional script-based report procedures are not available.



Built-in options when no active SumStat reporting script is available

Adopting New Reporting Capabilities

When a newer Quality Window build provides an updated DEFAULT_QWSUMSTAT.QWX6, the active Shared Config script may need to be reviewed against that default so existing customer settings and customizations can be preserved while newer reporting capabilities are incorporated.

Do not replace an existing active SumStat script simply by copying the new default over it. Contact Busitech Support support@busitech.com for assistance reviewing and updating an existing SumStat reporting script.

Troubleshooting SumStat

When a SumStat result or report is not what you expect, identify which layer of the workflow is responsible before changing the configuration.

```
Quality Window source -> SumStat configuration -> Query -> Report -> Optional delivery
```

Layer	What to Check
Quality Window source	Confirm the source application contains the expected records, variables, limits, Views, and other configuration.
View and SumStat filters	Confirm the selected View establishes the intended base data set and that SumStat filtering produces the intended records.

Layer	What to Check
Variable matching	Confirm the required variables are available under the intended Name, X-Ref, or Category matching mode.
Statistics	Confirm the required variable statistics and Summary Statistics are selected.
On-screen results	Review View Results on Screen to determine whether the underlying query results are correct before troubleshooting a particular report format.
Report output	If the on-screen results are correct but one report is not, investigate that report or its output format separately.
Missing report menu options	Confirm an active QWSUMSTAT.QWX6 exists in Shared Config and review whether it includes the current Busitech report procedures.
Email delivery	Confirm Quality Window email settings are configured and tested, the report is enabled for email, recipients are configured, and unattended-only behavior matches the test being performed.
Email failure with report file present	Review the Quality Window logs under ProgramData. Email delivery can fail silently while the generated report remains in the output folder.

A PDF layout issue, for example, does not necessarily indicate a problem with the underlying SumStat calculation. Likewise, Detailed Variable reporting introduces record-level processing that a standard statistical report does not require.

Key Terminology

Term	Meaning
Quality Window application	A source Quality Window application referenced by SumStat.
Variable	A Quality Window data element selected for analysis. The scripting API includes some legacy Field terminology, but user-facing documentation uses Variable.
Statistic	A calculation configured and calculated by SumStat for a selected variable.
Normalized statistic	The statistical result represented relative to the applicable volume basis.

Term	Meaning
Summary Statistic	An application-level summary result separate from an individual variable statistic.
SumStat configuration	The complete analysis and reporting configuration loaded into SumStat.
SUM file	A .SUM file containing a saved SumStat configuration.
Query	The SumStat operation that processes configured Quality Window sources and calculates the results used by reports.
Report	A presentation or export generated from SumStat query results and, where required, additional record-level information collected while sources are processed.
Report Output Location	The configured destination used for generated report files.
Unattended execution	Execution of a saved SumStat configuration without a user operating the SumStat interface. This is sometimes referred to technically as headless execution.
Active SumStat reporting script	QWSUMSTAT.QWX6 in the applicable Shared Config location; the script actually used by that environment.
Default SumStat reporting script	DEFAULT_QWSUMSTAT.QWX6 installed under ProgramData; the latest Busitech-supplied default for the installed build.

Busitech Support

For help configuring SumStat, updating the active SumStat reporting script, setting up automated email delivery, developing custom reports or Power BI extracts, creating custom automation, or troubleshooting a SumStat analysis, contact Busitech Support at support@busitech.com.