

Fenton 2025 Bulk Growth Chart Processor

Users Guide

for version V1.4.3.x

by

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Step 1: Navigate to the Bulk Processor

Link to open webpage
[Fenton 2025 Growth Chart](https://fentongrowth.ca)
(<https://fentongrowth.ca>)

Click on the Bulk processing tab

Growth Plotter

Bulk processing

Welcome to the Fenton 2025 Growth Plotter



Paste or drop data (optional)
Paste a CSV / Excel clip (or drop a .csv file) into the box below to automatically fill the form and rows.

Paste data or drag & drop a data file here.

Baby information

☒ Female

☐ Male

Language
of background growth chart
English

Date of birth
(e.g. 12-Sep-25, 2025-09-12, 9/12/2025)
(optional)

GA at birth
(e.g. 24w3d, 24+3, 24 3/7, 24.4)
(optional)

Title
(optional)

Number
or secondary title
(optional)

Data type
Growth Monitoring

Measurements

#	GA (weeks)	Weight (g)	Head (cm)	Length (cm)
1	e.g. 24w3d, 24+3, 24 3/7	(optional)	(optional)	(optional)

Copy your data to clipboard

Download your data

Calculate z-scores

Clear

GO

[Download User Documentation](#)

[Download Useful Excel Spreadsheet to format data](#)

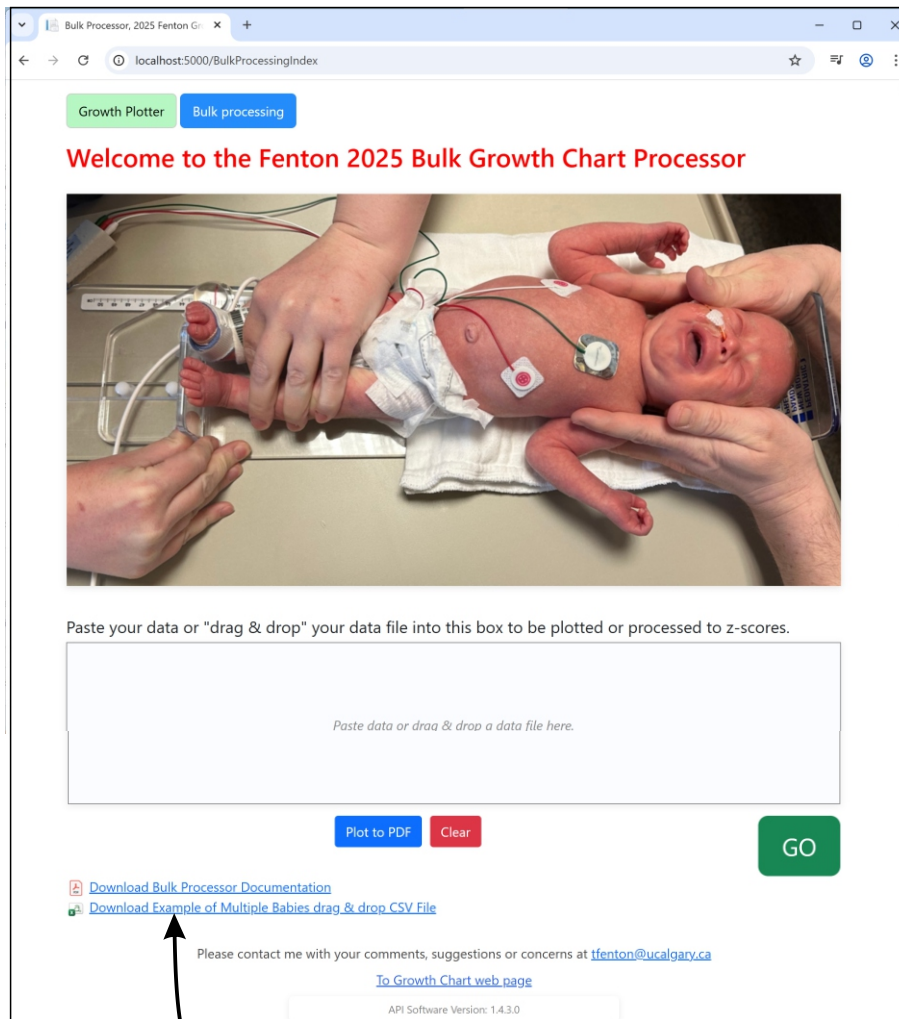
[Download Example of Single Baby drag & drop CSV File](#)

Please contact me with your comments, suggestions or concerns at tfenton@ucalgary.ca
[To Growth Chart web page](#)

API Software Version: 1.4.3.0

Step 2: Prepare your data

Link to open webpage
Fenton 2025 Bulk Growth Chart
(<https://fentongrowth.ca>)



Download the Multiple babies example comma-separated values (CSV) formatted file. Use this option to plot infant sizes on the growth charts and to calculate z-scores for multiple babies. You can include both sexes and process up to 18,000 entries.

See Page 4.

Step 3 using MultipleBabyExample.csv

Use this template to enter your data for multiple babies. You can include babies of both sexes. Can be a very large data set up to ~ 18,000 records.

Part a: Prepare data as shown

ID	Sex	GA (weeks)	Weight (g)	Head (cm)	Length (cm)
AB123	F	22.42857	511.1	21.22	
AB123	F	22.57143	610.1	22.51	33.5
AB123	F	22.71429	483.6	16.99	
AB123	F	22.85714	413.7	20.48	
AB123	F	23	549.6	20.27	
AB123	F	23.14286	454.8	17.81	
AB123	F	23.28571	529.9	18.38	
AB123	F	23.42857	463.2	19.08	26.81
AB123	F	23.57143	749.6	20.06	34.46
AB123	F	23.71429	479.3	22.01	28.84
AB123	F	23.85714	628.7	16.85	29.44
AB123	F	24	639.4	21.88	29.73
AB123	F	24.14286	536.6	21.13	26.6
AB123	F	24.28571	787.2	22.08	32.73
AB123	F	24.42857	607.6	24	30.3
AB123	F	24.57143	569.6	19.85	33.24
AB123	F	24.71429	614.8	21.16	32.98
AB123	F	24.85714	529.9	20.97	30.18

Optional - Title : For chart and table

Optional - Number : secondary title

Optional - Language : Select background language for growth chart . Supported languages: English, Arabic, Chinese, Croatian, Estonian, French, Greek, Polish, Spanish, and Ukrainian. Defaults to English

Optional - Length (cm) : measured baby length in centimetres.

Optional - Head (cm) : measured head circumference in centimetres.

Optional - Weight (g) : measured weight in units of grams.

Required - GA (weeks) : Gestational age in weeks. can be decimal or fractional format e.g. "24 3/7"

Required - Sex : F for female, M for male

Optional - ID : letters and numbers

Optional: data type: select Growth or BirthSize . Use Growth to monitor preterm (born between 22 to 37 weeks) infants' growth after birth using the Fenton third-generation growth chart to 50 weeks post menstrual age. Use BirthSize to determine z-scores and percentiles at the time of birth for infants born at 22 to 42 weeks. The data is the same between the growth monitoring and birth size databases up to about 37 weeks, therefore size assessment can be made using either the Growth or the BirthSize data up to about 37 weeks. For any infants with a gestational age at birth of 37 to 42 weeks, use the BirthSize evaluator and not the Growth chart for accurate z-scores and percentiles. The BirthSize database is based on the 15-country meta-analysis that was prepared for the Fenton third-generation growth chart development. Refer to the growth chart development paper for more explanation. [Fenton 2025 Growth Paper](https://doi.org/10.1111/ppe.70035) (https://doi.org/10.1111/ppe.70035)
The default is Growth monitoring.

Step 4 save your data

Title	My Big Data Set				
Number	Data Set 42				
Language	English				
Data Type	Growth				
ID	Sex	GA (weeks)	Weight (g)	Head (cm)	Length (cm)
AB123	F	22.42857	511.1	21.22	
AB123	F	22.57143	610.1	22.51	33.5
AB123	F	22.71429	483.6	16.99	
AB123	F	22.85714	413.7	20.48	
AB123	F	23	549.6	20.27	
AB123	F	23.14286	454.8	17.81	
AB123	F	23.28571	529.9	18.38	
AB123	F	23.42857	463.2	19.08	26.81
AB123	F	23.57143	749.6	20.06	34.46
AB123	F	23.71429	479.3	22.01	28.84
AB123	F	23.85714	628.7	16.85	29.44
AB123	F	24	639.4	21.88	29.73
AB123	F	24.14286	536.6	21.13	26.6
AB123	F	24.28571	787.2	22.08	32.73
AB123	F	24.42857	607.6	24	30.3
AB123	F	24.57143	569.6	19.85	33.24
AB123	F	24.71429	614.8	21.16	32.98
AB123	F	24.85714	529.9	20.97	30.18
AB123	F	25	645.2	21.40	31.77

Part b: Save your modified file and optionally copy all the data to the clipboard. Press Ctrl+C (PC) or Cmd+C (Mac) to copy to clipboard

Part c: Open the Plotting web page

Click this URL Link
[Fenton 2025 Growth Plotter](https://fentongrowth.ca)
(<https://fentongrowth.ca>)
then see **Page 4**.

Step 5, Paste data or drag and drop csv data file into the data drop zone.

Paste your data here with Cntr+V (PC), Cmd+V (Mac) or drag & drop your csv data file. After pasting or dropping, your data should appear here. See page 5.

Bulk Processor, 2025 Fenton Gr

localhost:5000/BulkProcessingIndex

Growth Plotter Bulk processing

Welcome to the Fenton 2025 Bulk Growth Chart Processor



Paste your data or "drag & drop" your data file into this box to be plotted or processed to z-scores.

Paste data or drag & drop a data file here.

Plot to PDF Clear

GO

[Download Bulk Processor Documentation](#)

[Download Example of Multiple Babies drag & drop CSV File](#)

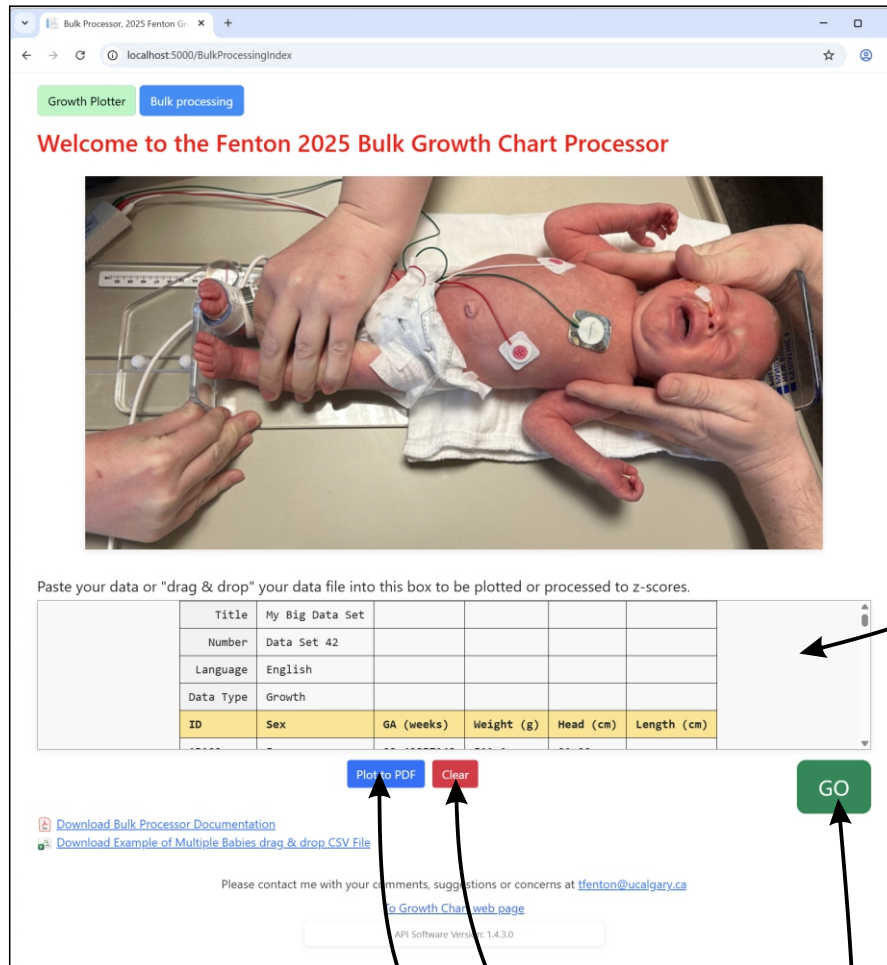
Please contact me with your comments, suggestions or concerns at tfenton@ucalgary.ca

[To Growth Chart web page](#)

API Software Version: 1.4.3.0

Step 6: Initiate the processing

After pasting or dropping,
your data should appear here.



Growt Plotter Bulk processing

Welcome to the Fenton 2025 Bulk Growth Chart Processor

Paste your data or "drag & drop" your data file into this box to be plotted or processed to z-scores.

Title	My Big Data Set				
Number	Data Set 42				
Language	English				
Data Type	Growth				
ID	Sex	GA (weeks)	Weight (g)	Head (cm)	Length (cm)

[Download Bulk Processor Documentation](#)
[Download Example of Multiple Babies drag & drop CSV File](#)

Please contact me with your comments, suggestions or concerns at tfenton@ucalgary.ca
[to Growth Chart web page](#)

API Software Version: 1.4.3.0

Plot to PDF Clear GO

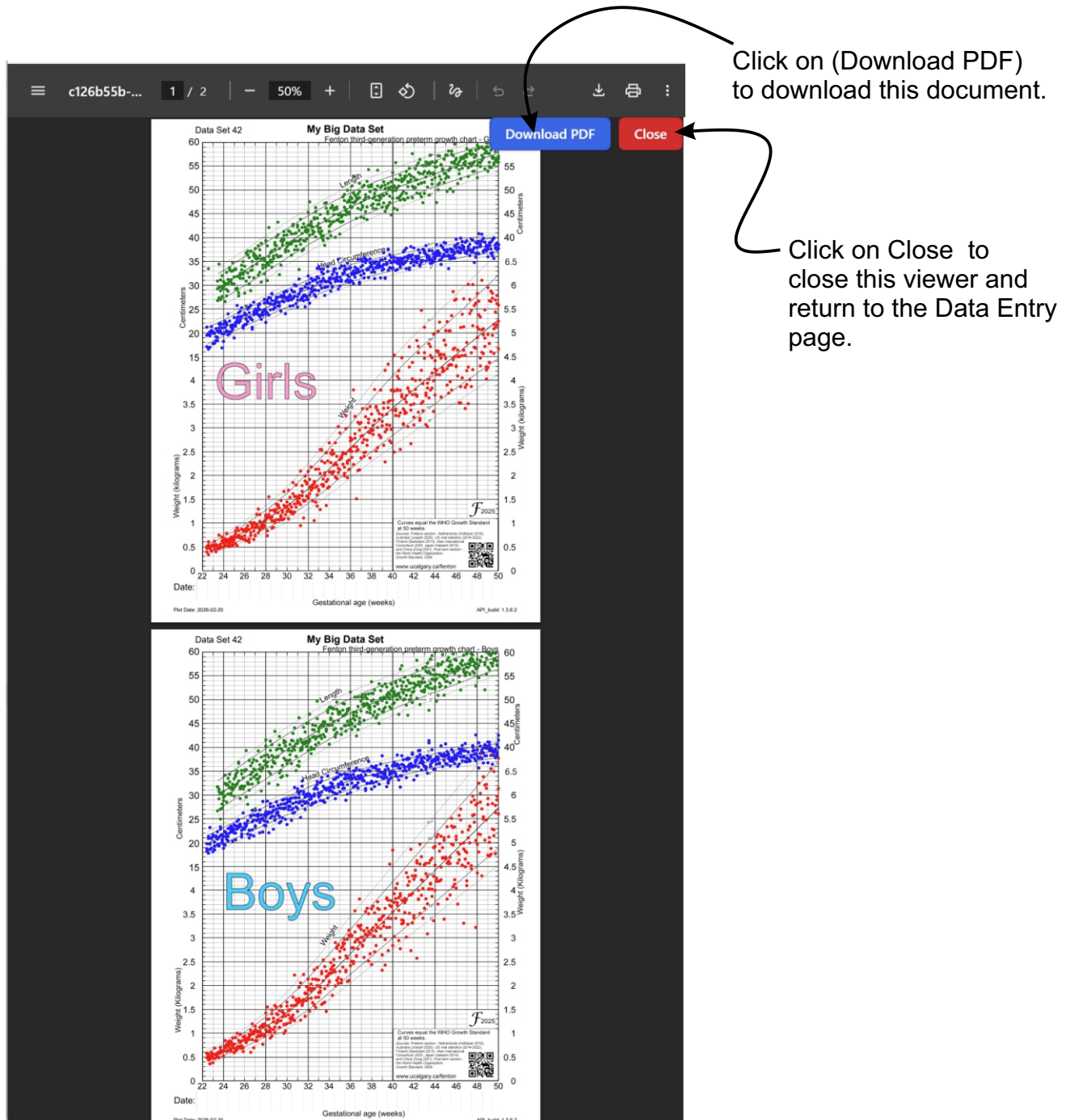
Press (Plot to PDF) to plot your data
See page 6

Press Clear to start over

Press GO to calculate z-scores
See page 7

Multiple baby test file plotted on the growth chart

MultipleBabyEcample.csv



Multiple baby test file calculated z-scores

MultipleBabyEcmample.csv

Title: My Big Data Set											
Number: Data Set 42											
Language: English											
ID	Sex	GA_weeks	Weight_g	W_Z	W_%	Head_cm	H_Z	H_%	Length_cm	L_Z	L_%
AB123	F	22.4286	511	0.686	75	21.22	1.397	92			
AB123	F	22.5714	610	1.867	97				33.50		
AB123	F	22.7143	484	-0.076	47	16.99	-2.038	2			
AB123	F	22.8571	414	-1.343	9	20.48	0.508	69			
AB123	F	23.0000	550	0.493	69	20.27	0.231	59			
AB123	F	23.1429	455	-1.029	15	17.81	-1.754	4			
AB123	F	23.2857	530	-0.127	45	18.38	-1.439	8			
AB123	F	23.4286	463	-1.222	11	19.08	-1.025	15	26.81	-1.141	13
AB123	F	23.5714	750	2.202	99	20.06	-0.395	35	34.46	2.135	98
AB123	F	23.7143	479	-1.295	10	22.01	0.970	83	28.84	-0.419	34
AB123	F	23.8571	629	0.445	67	16.85	-3.067	0	29.44	-0.246	40
AB123	F	24.0000	639	0.402	66	21.88	0.636	74	29.73	-0.203	42
AB123	F	24.1429	537	-0.993	16	21.13	-0.051	48	26.60	-1.652	5
AB123	F	24.2857	787	1.694	95	22.08	0.554	71	32.73	0.925	82
AB123	F	24.4286	608	-0.453	33	24.00	1.899	97	30.30	-0.216	41
AB123	F	24.5714	570	-1.036	15	19.85	-1.370	9	33.24	0.970	83
AB123	F	24.7143	615	-0.676	25	21.16	-0.488	31	32.98	0.772	78
AB123	F	24.8571	530	-1.755	4	20.97	-0.744	23	30.18	-0.522	30
AB123	F	25.0000	645	-0.648	26	21.49	-0.466	32	31.77	0.076	53
AB123	F	25.1429	569	-1.583	6	22.19	-0.050	48	33.46	0.715	76
AB123	F	25.2857	523	-2.189	1	23.23	0.616	73	29.08	-1.247	11
AB123	F	25.4286	842	0.815	79	22.13	-0.325	37	27.78	-1.888	3
AB123	F	25.5714	686	-0.824	20	22.87	0.120	55	31.46	-0.403	34
AB123	F	25.7143	688	-0.935	17	25.25	1.781	96	32.51	-0.038	48
AB123	F	25.8571	861	0.489	69	21.43	-1.173	12	32.37	-0.188	43
AB123	F	26.0000	738	-0.757	22	21.72	-1.069	14	32.92	-0.041	48
AB123	F	26.1429	632	-1.826	3	23.80	0.360	64	36.78	1.510	93
AB123	F	26.2857	860	0.010	50	25.01	1.131	87	36.38	1.253	89

Download CSV

Close

Click on (Download CSV) to download this table as a file in comma separated values (CSV) format.

Click on Close to close this viewer and return to the main data entry webpage.