

# Custom List Fields

## MTE User Manual - Custom List Report

4.03

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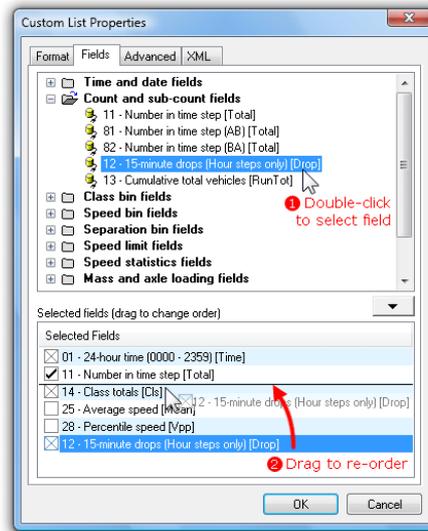
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# Custom List Fields

## Selecting Fields

Fields in a Custom List report form the columns of the report. The **Fields** page of the Custom List Properties contains the **Fields Tree** at the top with the list of available fields, and the **Selected Fields** list at the bottom.



### Selecting Custom List Fields

Fields can be added to the Selected Fields list by double-clicking them, or dragging them from the Fields Tree. The order of fields can be changed by dragging them around in the Selected Fields list. To remove a selected field, simply double-click it.

Note that the text in square brackets at the end of each field name is the column heading used for that field.

## Time and Date Fields

The Time and Date Fields display the *beginning* of each time step. There are a variety of standard date formats, most of which are self-explanatory.

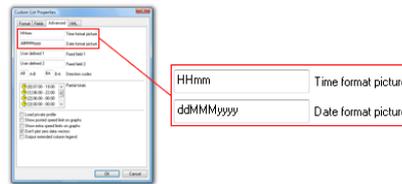
	1	2	3	4	5	6	7	8
	Time	YYYYMMDDHHMM	Date-Time	Date-Time	Time	Date	(hh:mm tt) (ddMMMyyyy)	Date
01 - 24-hour time (0000 - 2359) [Time]	0000	200707190000	2007-07-19 00:00:00	2007-07-19T00:00:00	00:00	19/07/2007	12:00 AM	19Jul2007
02 - Packed date and time [YYYYMMDDHHMM]	0100	200707190100	2007-07-19 01:00:00	2007-07-19T01:00:00	01:00	19/07/2007	01:00 AM	19Jul2007
03 - Full date and time [Date-Time]	0200	200707190200	2007-07-19 02:00:00	2007-07-19T02:00:00	02:00	19/07/2007	02:00 AM	19Jul2007
70 - ISO8601 date and time [Date-Time]	0300	200707190300	2007-07-19 03:00:00	2007-07-19T03:00:00	03:00	19/07/2007	03:00 AM	19Jul2007
04 - Locale time [Time]	0400	200707190400	2007-07-19 04:00:00	2007-07-19T04:00:00	04:00	19/07/2007	04:00 AM	19Jul2007
05 - Locale short date [Date]	0500	200707190500	2007-07-19 05:00:00	2007-07-19T05:00:00	05:00	19/07/2007	05:00 AM	19Jul2007
06 - User defined time picture [Time]	0600	200707190600	2007-07-19 06:00:00	2007-07-19T06:00:00	06:00	19/07/2007	06:00 AM	19Jul2007
07 - User defined date picture [Date]								

### Custom List Time and Date Fields

The **Locale** options use the format provided by the operating system's regional settings.

The **ISO8601** format is recommended when exporting data, to provide compatibility with programs such as Excel.

The **User defined** date and time pictures can be edited on the **Advanced** page of the Custom List Properties, using the standard Windows time and date notation.



Custom List user defined date and time pictures

## Count and Sub-count Fields

The Count and Sub-count fields provide the total number of vehicles in the current time step.

Count and sub-count fields		Time	Total	Total	Total	Drop	Drop	Drop	Drop	RunTot
11 - Number in time step [Total]				<b>AB</b>	<b>BA</b>	<b>--00</b>	<b>--15</b>	<b>--30</b>	<b>--45</b>	
81 - Number in time step [AB] [Total]		0000	643	302	341	211	171	146	115	643
82 - Number in time step [BA] [Total]		0100	382	162	220	90	97	89	106	1025
12 - 15-minute drops (Hour steps only) [Drop]		0200	311	116	195	95	84	77	55	1336
13 - Cumulative total vehicles [RunTot]		0300	322	158	164	60	72	84	106	1658

Custom List Count Fields

If the directional totals **AB** and **BA** are used with multiple datasets tagged, each dataset should have the same direction code.

When using an hourly time step, the **15-minute drops** field inserts a column for the total vehicles in each 15-minute period.

The **Cumulative total vehicles** field displays the cumulative number of vehicles since the beginning of the report.

## Class Bin Fields

The **Class totals** and **percentages** fields include a column of total vehicles (or percentage) for each class included in the report's Local Profile.

Class bin fields		Time	Total	Cls	Cls	Cls	C1%	C1%	C1%
14 - Class totals [Cls]				<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>
15 - Class percentages [C1%]		0000	643	623	12	8	96.9	1.9	1.2
		0100	382	368	10	4	96.3	2.6	1.0
		0200	311	302	7	2	97.1	2.3	0.6
		0300	322	305	15	2	94.7	4.7	0.6

Custom List Class Bin Fields

## Speed Bin Fields

The **Speed bin totals** and **percentages** fields include a column of total vehicles (or percentage) for each *enabled* speed bin in the report's Local Profile. The lower and upper limits of each column are displayed in the column's heading.

Note that some vehicles may be hidden if some speed bins are disabled.

Speed bin fields		Time	Total	Vbin	Vbin	Vbin	Vbin	Vb%	Vb%	Vb%	Vb%	vRate
16 - Speed bin totals [Vbin]				<b>0</b>	<b>60</b>	<b>80</b>	<b>100</b>	<b>0</b>	<b>60</b>	<b>80</b>	<b>100</b>	
17 - Speed bin percentages [Vb%]		0000	643	1	263	355	24	0.2	40.9	55.2	3.7	403.0
37 - Speed rating [vRate]		0100	382	2	157	204	19	0.5	41.1	53.4	5.0	242.0
		0200	311	1	113	185	12	0.3	36.3	59.5	3.9	209.0
		0300	322	0	102	205	15	0.0	31.7	63.7	4.7	235.0

Custom List Speed Bin Fields

The **Speed rating** field is the sum of products of each speed bin total multiplied by the bin's multiplier. These are defined in the report's Local Profile.

## Separation Bin Fields

The **Separation bin totals** and **percentages** fields include a column of total vehicles (or percentage) for each separation bin defined in the report's Local Profile. The lower and upper limits of each column are displayed in the column's heading.

Separation bin fields		Time	Total	Sep	sRate									
41 - Separation bin totals [Sep]				<b>0.00</b>	<b>0.50</b>	<b>1.00</b>	<b>2.00</b>	<b>4.00</b>	<b>0.00</b>	<b>0.50</b>	<b>1.00</b>	<b>2.00</b>	<b>4.00</b>	
60 - Separation bin percentages [Sep%]		0700	6945	8	954	3757	1647	579	0.1	13.7	54.1	23.7	8.3	12055.0
42 - Separation rating [sRate]		0800	5909	3	385	2600	2405	514	0.1	6.5	44.0	40.7	8.7	8772.0
		0900	6072	4	586	3080	1673	729	0.1	9.7	50.7	27.6	12.0	9607.0
		1000	5134	5	579	2246	1391	913	0.1	11.3	43.7	27.1	17.8	7640.0

Custom List Separation Bin Fields

The **Separation rating** field is the sum of products of each separation bin total multiplied by the bin's multiplier. These are defined in the report's Local Profile.

## Speed Limit Fields

The Speed Limit fields display the total number of vehicles (or percentage) exceeding the selected speed limit. The Posted Speed Limit, and up to 10 other limits are defined in the report's Local Profile.

The actual limit, and the limit's name if one was defined, are displayed in the column heading.

Speed limit fields		Time	Total	>PSL	>PSL%	>SL1	>SL1%	>SL2	>SL2%
18 - Number exceeding Posted Speed Limit [PSL]				80	80	90	90	100	100
19 - Percent exceeding Posted Speed Limit [PSL%]						PSL+10	PSL+10	PSL+20	PSL+20
20 - Number exceeding Speed Limit 1 [SL1]		0000	643	379	58.9	92	14.3	24	3.7
21 - Percent exceeding Speed Limit 1 [SL1%]		0100	382	223	58.4	63	16.5	19	5.0
61 - Number exceeding Speed Limit 2 [SL2]		0200	311	197	63.3	57	18.3	12	3.9
62 - Percent exceeding Speed Limit 2 [SL2%]		0300	322	220	68.3	72	22.4	15	4.7

### Custom List Speed Limit Fields

## Speed Statistics Fields

The Speed Statistics fields provide a variety of standard statistical measures for the speed of vehicles in the current time step.

Speed statistics fields		Time	Total	nPace	vPace	Pace%	Mean	Vmin	Vmax	Vpp	Vpp	V50	SD	Var	MeanX
22 - Number in speed pace [nPace]				20	20	20				85	95				80
23 - Speed at start of pace [vPace]		0000	643	542	72.7	84.3	82.6	59.3	145.6	89.6	96.5	81.0	8.9	79.7	87.3
24 - Percent in pace [Pace%]		0100	382	313	70.9	81.9	82.7	52.8	123.1	90.4	99.0	81.0	9.0	81.1	87.9
25 - Average speed [Mean]		0200	311	252	73.4	81.0	83.3	56.6	134.6	91.4	98.3	81.7	9.0	80.1	87.8
26 - Minimum speed [Vmin]		0300	322	256	73.1	79.5	84.9	65.1	115.0	94.0	99.7	83.5	8.4	70.3	88.8
27 - Maximum speed [Vmax]		0400	717	603	72.7	84.1	84.2	56.9	121.1	91.4	98.6	82.8	8.0	64.2	87.5
28 - Percentile speed [Vpp]		0500	1789	1520	72.7	85.0	83.8	59.7	132.4	91.1	97.2	82.8	7.5	56.5	87.4
29 - Percentile speed 2 [Vpp]		0600	4867	4177	69.5	85.8	79.2	4.2	116.8	85.7	90.0	79.2	7.0	49.3	85.0
30 - 50th percentile speed (Median) [V50]		0700	6945	4998	62.3	72.0	70.8	21.1	109.9	80.6	85.0	72.0	10.5	109.5	83.9
44 - Standard Deviation [SD]		0800	5909	2634	63.0	44.6	52.8	0.0	105.2	78.5	82.8	62.3	24.5	597.8	83.8
45 - Variance [Var]		0900	6072	3382	63.0	55.7	66.4	2.4	115.8	79.9	84.6	68.0	13.4	179.3	84.1
69 - Mean Exceeding [MeanX]		1000	5134	4064	63.4	79.2	74.0	49.4	112.5	81.7	86.8	74.2	8.0	64.4	84.4

### Custom List Speed Statistics Fields

The width of the speed pace, the percentile speeds and the posted speed limit for **Mean Exceeding** are all set in the report's Local Profile. The actual values are displayed in the column headings.

# Mass and Axle Loading Fields

The number of single, double and triple axle groups are based on the definition of a group (two or more axles less than a certain distance apart) in the selected Classification Scheme.

The ESA and estimated mass fields use the Estimated Mass table in the report's Local Profile.

Mass and axle loading fields	Time	Total	nAx1	nAx2	nAx3	ESA	Mass	gMass	Energy
31 - Number of isolated single axles [nAx1]	1300	239	458	44	12	102.9	404.0	937.1	232.94
32 - Number of double axle groups [nAx2]	1400	255	482	53	10	96.8	387.0	901.0	209.67
33 - Number of triple (or more) axle groups [nAx3]	1500	332	642	40	9	74.6	279.0	640.6	147.97
34 - Number of equivalent standard axles [ESA]	1600	309	593	51	14	112.5	474.0	1033.1	282.22
35 - Estimated freight mass [fMass]	1700	297	579	41	16	95.6	417.0	865.9	220.43
36 - Estimated gross mass [gMass]	1800	179	337	40	20	98.9	432.0	905.7	234.99
43 - Energy [Energy]	1900	97	172	30	19	82.3	379.0	774.8	195.39

Custom List Mass Fields

# Formatting Fields

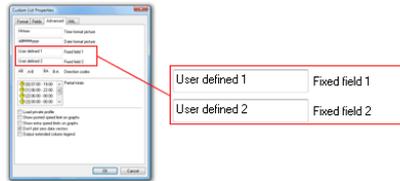
Fields or columns in the Custom List are normally separated by a space character on the right-hand side of the field. This character can be changed in the Custom List's Formatting options.

The **Separate columns with a vertical rule** field can be used to further delineate fields. Placing **Remove separator from next field** before a field will join the next two fields together.

Formatting fields	Time	Total	Fix1	Fix2	Fix1	Fix2
33 - Separate columns with a vertical rule [1]	1300	239	User defined 1	User defined 2	User defined 1	User defined 2
40 - Remove separator from next field [1]	1400	255	User defined 1	User defined 2	User defined 1	User defined 2
D8 - User defined fixed text [Fix1]	1500	332	User defined 1	User defined 2	User defined 1	User defined 2
D9 - User defined fixed text [Fix2]						

Custom List Formatting Fields

The user defined text fields can be set in the **Advanced** page of the Custom List Properties.



Custom List user defined fields

## Other Fields

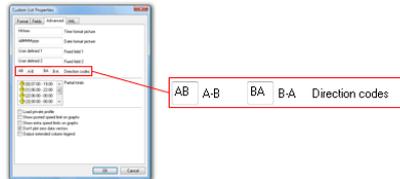
The **Average of sensor correlation** field is the average ratio of "matching" A and B hits for vehicles in the current time step. Perfect data will have a value of one.

The **Normalise divisor** field can be used in the Virtual Day and Week to show the number of times a particular hour of the day (or day of the week) contributed to the virtualised totals and statistics.

		^ Virtual Day (7)				
		Time	-/n	Dir	Rho	Total
Other fields	38 - Average of sensor correlation [Rho]	0000	7	AB	1.000	360
	46 - Normalise divisor [-/n]	0000	7	BA	1.000	472
	10 - Direction code [Dir]	0100	7	AB	1.000	202
		0100	7	BA	1.000	313
		0200	7	AB	1.000	149
		0200	7	BA	1.000	249

### Custom List Other fields

The **Direction code** field can be used with the **Split directions** formatting option where each time step is split into two rows (A>B and B>A). The text shown for each direction can be overridden in the Advanced page of the Custom List properties.



### Custom List direction codes

## Vehicle Parameter Fields

The **Vehicle Parameter** fields are used with the **Emit every vehicle** formatting option. Refer to the Individual Vehicle report for a definition of each field.

Vehicle parameter fields		Date-Time	DS	Index	Ht	Speed	Wbase	Hdwy	Gap	Ax	Gp	Rho	Nm	Cl	Vehicle	Pic
47 - Dataset [DS]		2007-07-12 14:12:48	2	10747	12	78.9	15.1	9.7	9.6	6	3	1.00	20	10	o	ooo
48 - Vehicle index [Index]		2007-07-12 14:12:49	4	9268	4	58.4	6.3	2.1	2.0	2	2	1.00	20	4	o	
49 - Total hits in vehicle [Hit]		2007-07-12 14:12:50	5	5928	4	78.9	2.4	1.9	1.8	2	2	1.00	20	2	o	o
50 - Vehicle speed [Speed]		2007-07-12 14:12:51	3	7292	8	83.2	10.2	14.8	14.7	4	3	1.00	20	8	o	oo
51 - Vehicle wheelbase [Wbase]		2007-07-12 14:12:52	2	10759	4	73.0	2.6	3.5	2.8	2	2	1.00	20	2	o	o
52 - Vehicle headway [Hdwy]		2007-07-12 14:12:52	3	7300	4	82.0	2.9	1.3	0.9	2	2	1.00	20	2	o	o
53 - Vehicle gap [Gap]		2007-07-12 14:12:52	4	9272	4	59.2	2.9	3.8	3.4	2	2	1.00	20	2	o	o
54 - Vehicle axes [Ax]		2007-07-12 14:12:53	5	5932	4	77.7	2.8	3.0	2.9	2	2	1.00	20	2	o	o
55 - Vehicle axle groups [Gp]		2007-07-12 14:12:53	2	10763	4	76.2	2.8	1.0	0.9	2	2	1.00	20	2	o	o
56 - Axle correlation [Rho]		2007-07-12 14:12:53	3	7304	4	85.0	2.9	0.8	0.6	2	2	1.00	20	2	o	o
57 - Debug parameter [Nm]		2007-07-12 14:12:54	4	9276	12	57.7	14.9	1.8	1.6	6	3	1.00	20	10	o	ooo
58 - Vehicle picture [Vehicle Pic]		2007-07-12 14:12:55	2	10767	4	71.6	2.6	2.1	2.0	2	2	1.00	20	2	o	o
59 - Vehicle class [Cl]		2007-07-12 14:12:56	2	10771	4	78.4	2.9	1.2	1.1	2	2	1.00	20	2	o	o
		2007-07-12 14:12:56	3	7308	4	79.3	2.5	3.3	3.2	2	2	1.00	20	2	o	o

### Custom List Vehicle Parameter Fields

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