MetroCount®
Traffic Data Specialists

Custom List Fields

MTE User Manual - Custom List Report

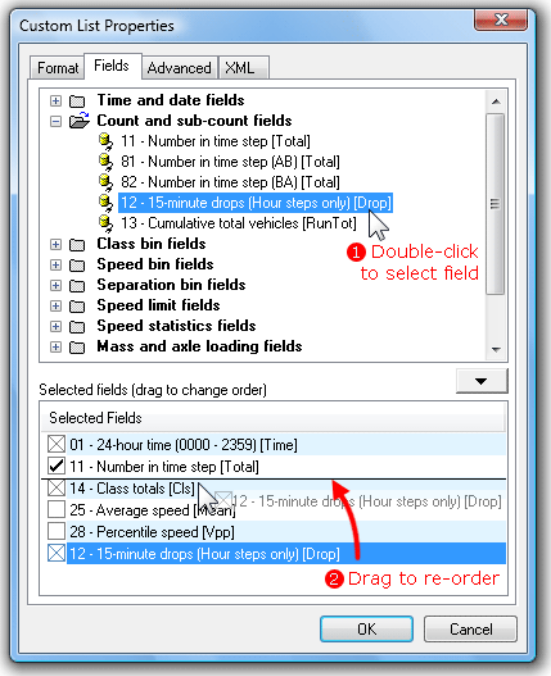
3.21

May 2009

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.



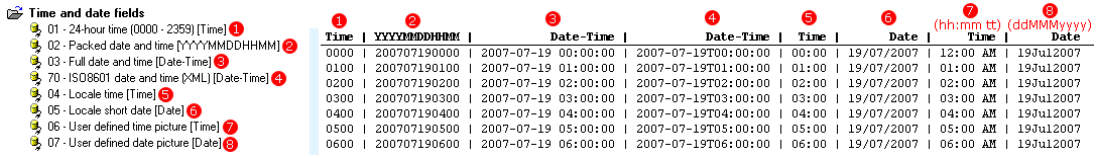
Selecting Custom List Fields

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.



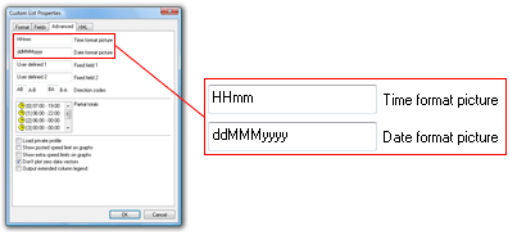
1 Time	2 YYYYMMDDHHMM	3 Date-Time	4 Date-Time	5 Time	6 Date	7 (hh:mm tt) Time	8 (ddMMMyyyy) Date
0000	200707190000	2007-07-19 00:00:00	2007-07-19T00:00:00	00:00	19/07/2007	12:00 AM	19Jul2007
0100	200707190100	2007-07-19 01:00:00	2007-07-19T01:00:00	01:00	19/07/2007	01:00 AM	19Jul2007
0200	200707190200	2007-07-19 02:00:00	2007-07-19T02:00:00	02:00	19/07/2007	02:00 AM	19Jul2007
0300	200707190300	2007-07-19 03:00:00	2007-07-19T03:00:00	03:00	19/07/2007	03:00 AM	19Jul2007
0400	200707190400	2007-07-19 04:00:00	2007-07-19T04:00:00	04:00	19/07/2007	04:00 AM	19Jul2007
0500	200707190500	2007-07-19 05:00:00	2007-07-19T05:00:00	05:00	19/07/2007	05:00 AM	19Jul2007
0600	200707190600	2007-07-19 06:00:00	2007-07-19T06:00:00	06:00	19/07/2007	06:00 AM	19Jul2007

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
- 11 - Number in time step [Total]
- 81 - Number in time step (AB) [Total]
- 82 - Number in time step (BA) [Total]
- 12 - 15-minute drops (Hour steps only) [Drop]
- 13 - Cumulative total vehicles [RunTot]

Time	Total	Total AB	Total BA	Drop --00	Drop --15	Drop --30	Drop --45	RunTot
0000	643	302	341	211	171	146	115	643
0100	382	162	220	90	97	89	106	1025
0200	311	116	195	95	84	77	55	1336
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
- 14 - Class totals [Cls]
- 15 - Class percentages [Cl%]

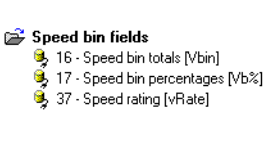
Time	Total	Cls 1	Cls 2	Cls 3	Cl% 1	Cl% 2	Cl% 3
0000	643	623	12	8	96.9	1.9	1.2
0100	382	368	10	4	96.3	2.6	1.0
0200	311	302	7	2	97.1	2.3	0.6
0300	322	305	15	2	94.7	4.7	0.6

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.



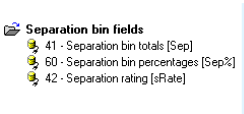
Time	Total	Vbin 0 60	Vbin 60 80	Vbin 80 100	Vbin 100 200	Vb% 0 60	Vb% 60 80	Vb% 80 100	Vb% 100 200	vRate
0000	643	1	263	355	24	0.2	40.9	55.2	3.7	403.0
0100	382	2	157	204	19	0.5	41.1	53.4	5.0	242.0
0200	311	1	113	185	12	0.3	36.3	59.5	3.9	209.0
0300	322	0	102	205	15	0.0	31.7	63.7	4.7	235.0

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.



Time	Total	Sep 0.00 0.50	Sep 0.50 1.00	Sep 1.00 2.00	Sep 2.00 4.00	Sep 4.00 1000.00	Sep% 0.00 0.50	Sep% 0.50 1.00	Sep% 1.00 2.00	Sep% 2.00 4.00	Sep% 4.00 1000.00	sRate
0700	6945	8	954	3757	1647	579	0.1	13.7	54.1	23.7	8.3	12055.0
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

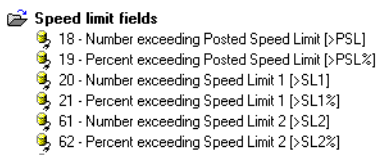
Custom List Separation Bin Fields

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.

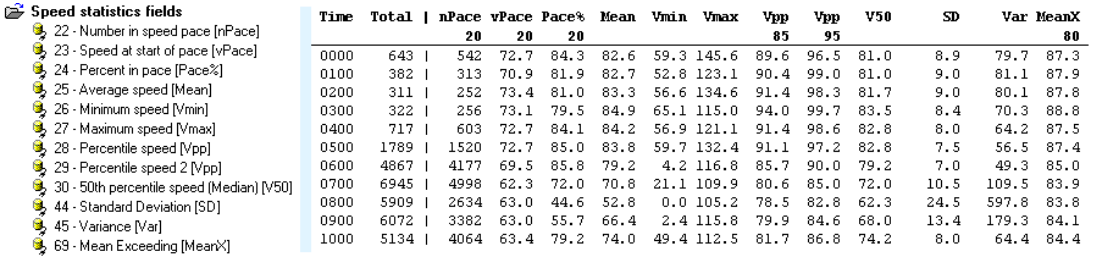


Time	Total	>PSL 80	>PSL% 80	>SL1 90 PSL+10	>SL1% 90 PSL+10	>SL2 100 PSL+20	>SL2% 100 PSL+20
0000	643	379	58.9	92	14.3	24	3.7
0100	382	223	58.4	63	16.5	19	5.0
0200	311	197	63.3	57	18.3	12	3.9
0300	322	220	68.3	72	22.4	15	4.7

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.



Time	Total	nPace 20	vPace 20	Pace% 20	Mean	Vmin	Vmax	Vpp 85	Vpp 95	V50	SD	Var	MeanX 80
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
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
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
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
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
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
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
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
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
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
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
- 31 - Number of isolated single axles [nAx1]
- 32 - Number of double axle groups [nAx2]
- 33 - Number of triple (or more) axle groups [nAx3]
- 34 - Number of equivalent standard axles [ESA]
- 35 - Estimated freight mass [fMass]
- 36 - Estimated gross mass [gMass]
- 43 - Energy [Energy]

Time	Total	nAx1	nAx2	nAx3	ESA	fMass	gMass	Energy
1300	239	458	44	12	102.9	404.0	937.1	232.94
1400	255	482	53	10	96.8	387.0	901.0	209.67
1500	332	642	40	9	74.6	279.0	640.6	147.97
1600	309	593	51	14	112.5	474.0	1033.1	282.22
1700	297	579	41	16	95.6	417.0	865.9	220.43
1800	179	337	40	20	98.9	432.0	905.7	234.99
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.

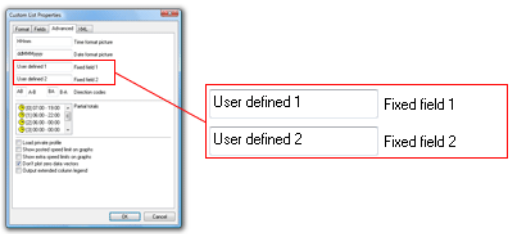
The **Separate columns with a vertical rule** field can be used to further delineate fields. Placing **Remove separator from next field** before a field will join the next two fields together.

Formatting fields
- 39 - Separate columns with a vertical rule [|] 1
- 40 - Remove separator from next field [ ] 2
- 08 - User defined fixed text [Fix1]
- 09 - User defined fixed text [Fix2]

Time	Total	Fix1	Fix2	Fix1	Fix2
1300	239	User defined 1	User defined 2	User defined 1	User defined 2
1400	255	User defined 1	User defined 2	User defined 1	User defined 2
1500	332	User defined 1	User defined 2	User defined 1	User defined 2

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.

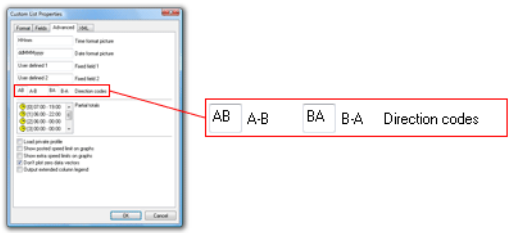
Other fields
- 38 - Average of sensor correlation [Rho]
- 46 - Normalise divisor [-/n]
- 10 - Direction code [Dir]

* Virtual Day (7)

Time	-/n	Dir	Rho	Total
0000	7	AB	1.000	360
0000	7	BA	1.000	472
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
- 47 - Dataset [DS]
- 48 - Vehicle index [Index]
- 49 - Total hits in vehicle [Ht]
- 50 - Vehicle speed [Speed]
- 51 - Vehicle wheelbase [Wbase]
- 52 - Vehicle headway [Hdwy]
- 53 - Vehicle gap [Gap]
- 54 - Vehicle axles [Ax]
- 55 - Vehicle axle groups [Gp]
- 56 - Axle correlation [Rho]
- 57 - Debug parameter [Nm]
- 58 - Vehicle picture [Vehicle Pic]
- 59 - Vehicle class [Cl]

Date-Time	DS	Index	Ht	Speed	Wbase	Hdwy	Gap	Ax	Gp	Rho	Nm	Cl	Vehicle Pic
2007-07-12 14:12:48	2	10747	12	78.9	15.1	9.7	9.6	6	3	1.00	20	10	o oo ooo
2007-07-12 14:12:49	4	9268	4	58.4	6.3	2.1	2.0	2	2	1.00	20	4	o o
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
2007-07-12 14:12:51	3	7292	8	83.2	10.2	14.8	14.7	4	3	1.00	20	8	o o oo
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
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
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
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
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
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
2007-07-12 14:12:54	4	9276	12	57.7	14.9	1.8	1.6	6	3	1.00	20	10	o oo ooo
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
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

www.metrocount.com