MetroCount®

Traffic Data Specialists

Custom List Report

MTE User Manual

3.21

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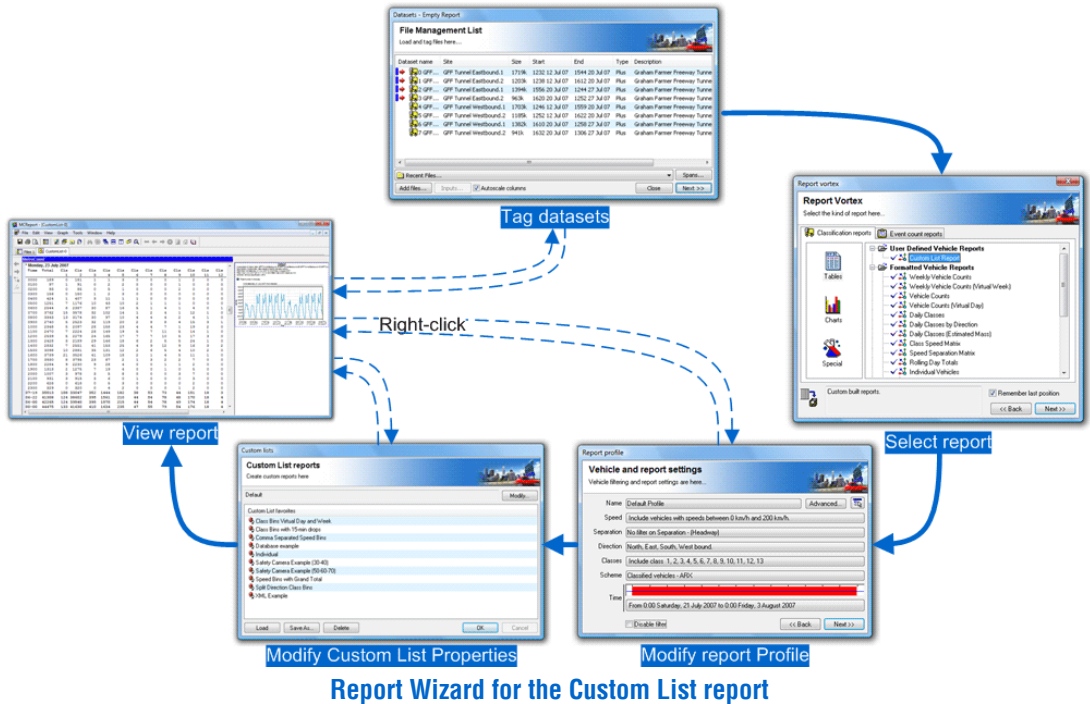
# Generating a Custom List Report

Report Wizard

The Custom List report is a **Classification** report, under **Tables** in the Report Vortex. The Custom List report's properties are displayed as an additional step to the Report Wizard, just before the report is generated.

A Custom List report's properties can be accessed at any time via the report's right-click menu, just like the report's Local Profile. Custom Lists can also be easily saved for future use.

Report Wizard for the Custom List report

Custom List Properties

The main Custom List dialog box is used for loading and saving Custom List formats, and for changing the current format.
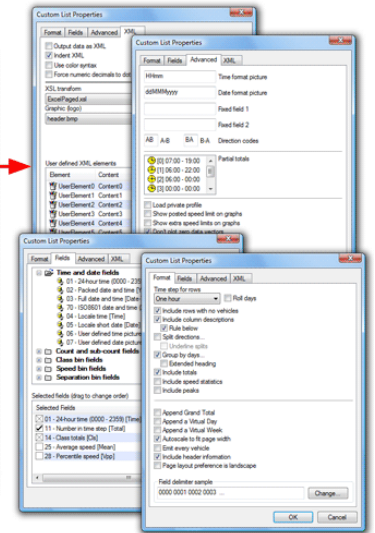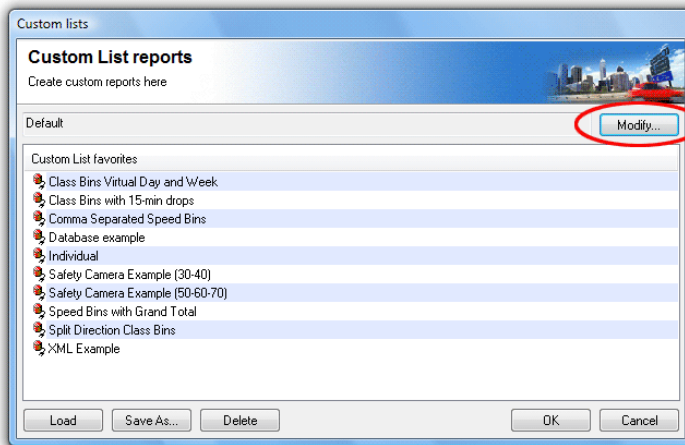
Custom List report properties

To load an existing Custom List format, select an item from the **Favorties** list and click the **Load** button, or simply double-click. The Custom List name will change to indicate the format has been loaded. Several examples are provided.

The **Save As** button writes the current Custom List format to a file, whose name will then appear in the **Favorites** list. Custom List format files have a **.xpt** extension, and should be stored in the **Profiles** folder in MTE's Documents folder.

The **Modify** button at the top leads to another dialog box, with the Custom List properties broken into four areas:

- **Format** - defines the layout of the report, specifically the rows and totals.
- **Fields** - defines the included columns, and their order.
- **Advanced** - miscellaneous options, including user-defined fields and totals.
- **XML** - options for exporting data via XML.

Most of these options are covered in subsequent sections. Exporting data via XML is covered in its own chapter.

Note:
*The word **modified** will be appended to the Custom List format name when any properties are changed. To remove this, simply save the format.*

Custom List Format

Time Step Interval

The **Time Step** option is the interval over which vehicles are accumulated for each row in a Custom List report. The **Suppress steps** selection removes all data rows from the Custom List report, leaving only summary totals and statistics such as the Virtual Day or Week.
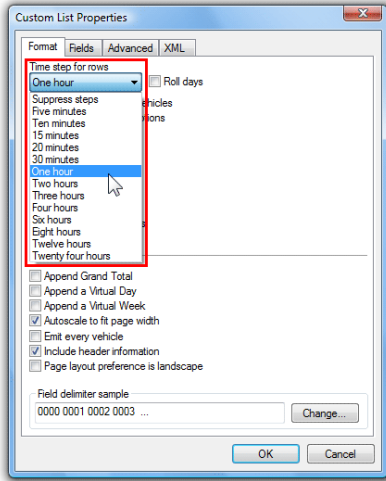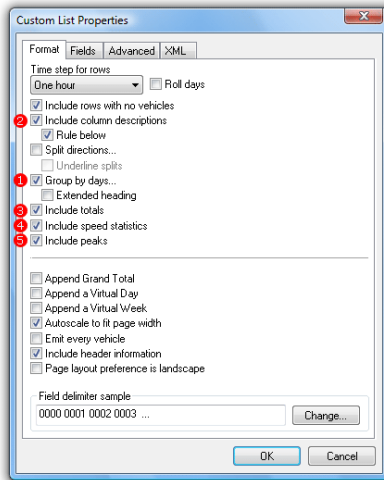

Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Mean	Vpp 85
0000	256	1	247	3	4	1	0	0	0	0	0	0	0	0	78.6	84.2
0100	226	0	223	1	2	0	0	0	0	0	0	0	0	0	79.3	85.0
0200	132	0	125	0	2	3	1	0	0	0	1	0	0	0	81.2	88.2
0300	111	1	101	0	6	2	1	0	0	0	0	0	0	0	81.6	88.9
0400	185	1	163	1	8	6	1	1	1	2	0	1	0	0	79.8	84.6
0500	450	6	410	5	14	7	0	0	1	1	5	1	0	0	80.1	85.7
0600	1343	5	1204	24	57	16	4	1	3	7	21	0	1	0	73.1	79.2
0700	2111	8	1965	33	69	9	4	2	7	5	6	1	1	1	60.1	72.0
0800	2161	7	2019	25	72	15	5	3	5	4	6	0	0	0	56.1	64.1
0900	1790	8	1637	16	90	15	4	3	3	5	8	1	0	0	66.5	73.8
1000	1619	4	1470	22	81	11	4	7	1	6	12	1	0	0	65.0	73.1
1100	1661	4	1516	18	83	14	4	8	1	6	7	0	0	0	66.1	73.1
1200	1669	6	1541	16	75	14	1	3	0	3	9	1	0	0	65.9	74.2
1300	1595	9	1452	14	85	15	3	4	2	8	3	0	0	0	67.4	74.9
1400	1701	4	1578	18	77	10	3	1	3	1	6	0	0	0	67.2	74.2
1500	1915	8	1789	25	69	5	2	3	5	4	5	0	0	0	64.3	70.9
1600	1436	3	1375	20	28	3	2	1	1	0	2	0	1	0	34.6	52.9
1700	1346	4	1318	8	16	0	0	0	0	0	0	0	0	0	29.6	38.2
1800	1654	8	1625	2	12	2	1	1	0	2	1	0	0	0	54.5	73.4
1900	1049	4	1027	3	12	0	0	1	1	1	0	0	1	0	73.6	79.6
2000	806	3	787	1	11	1	0	0	0	1	2	0	0	0	75.0	79.9
2100	742	3	727	2	7	1	0	0	0	0	2	0	0	0	76.2	81.0
2200	672	5	655	1	3	3	2	0	0	2	1	0	0	0	77.0	81.7
2300	466	3	453	1	6	2	0	0	0	0	0	1	0	0	77.3	82.4
07-19	20658	73	19285	217	757	113	33	36	28	44	65	4	2	1	58.9	72.0
06-22	24598	88	23030	247	844	131	37	38	32	52	90	5	3	1	61.4	74.5
06-00	25736	96	24138	249	853	136	39	38	32	54	92	5	3	1	62.1	75.6
00-00	27096	105	25407	259	889	155	42	39	34	57	98	7	3	1	63.0	76.3

Example Custom List report with a time step of one hour

Time Step Grouping

The **Group by days** option breaks the time steps into 24-hour groups, placing the date at the start of the group. The option also includes the **column descriptions** option before the group, and the **totals, speed statistics** and **peaks** options after the group. If the **Group by days** option is not selected, these options appear at the beginning and end of the entire range of time steps.

Custom List Grouping and Totals

When data is grouped by days, the first time step starts at midnight. The **Roll days** option groups data in 24-hour periods aligned to the start of the report's Time Filter. This is useful for short 24 or 48-hour counts where daily totals are required, but the data may not start at midnight.

* Tuesday, 1 May 2007 - Wednesday, 2 May 2007

Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Mean	Vpp 85
0900	1741	7	1603	17	76	11	5	5	6	2	5	1	0	3	70.7	77.0
1000	1471	3	1313	24	97	12	5	5	3	4	5	0	0	0	73.7	80.3
1100	1544	1	1396	16	91	11	7	7	4	4	6	1	0	0	73.0	79.6
1200	1560	2	1422	15	84	12	5	4	3	1	10	1	1	0	73.2	80.3
1300	1575	0	1425	11	99	13	7	9	5	1	5	0	0	0	72.9	79.6
1400	1709	0	1552	27	83	20	4	6	2	3	12	0	0	0	72.4	79.2
1500	1822	1	1680	29	82	12	3	2	4	3	5	0	0	1	70.3	78.5
1600	2018	6	1921	22	56	6	0	2	2	1	2	0	0	0	67.0	75.6
1700	1964	2	1892	22	32	5	3	2	4	2	0	0	0	0	63.2	73.8
1800	1560	3	1525	7	15	5	0	0	2	1	1	1	0	0	75.3	81.4
1900	1032	3	1008	7	9	2	0	1	0	1	1	0	0	0	79.2	84.6
2000	787	7	760	3	10	4	0	1	1	0	1	0	0	0	79.6	85.0
2100	804	3	789	1	6	2	0	1	0	0	2	0	0	0	79.6	85.0
2200	633	3	612	2	10	2	1	1	1	0	1	0	0	0	79.5	85.3
2300	349	1	337	0	7	2	0	0	0	0	2	0	0	0	82.0	88.9
0000	196	3	187	0	1	3	0	0	0	1	1	0	0	0	83.3	88.6
0100	96	0	90	0	2	3	0	0	0	1	0	0	0	0	82.1	87.1
0200	78	1	73	0	4	0	0	0	0	0	0	0	0	0	83.4	88.9
0300	133	0	121	0	6	3	1	0	0	0	2	0	0	0	82.8	87.8
0400	335	1	315	3	11	3	1	0	0	0	1	0	0	0	82.6	88.2
0500	738	6	680	3	35	9	1	0	2	1	1	0	0	0	81.5	86.4
0600	1559	5	1461	18	54	12	2	1	4	0	1	1	0	0	76.1	81.7
0700	1897	10	1811	20	38	5	2	0	0	3	7	1	0	0	69.1	76.7
0800	1836	8	1750	10	47	8	2	2	2	1	6	0	0	0	68.1	76.3
07-19	**20697**	**43**	**19290**	**220**	**800**	**120**	**43**	**44**	**37**	**26**	**64**	**5**	**1**	**4**	**70.4**	**78.5**
06-22	**24879**	**61**	**23308**	**249**	**879**	**140**	**45**	**48**	**42**	**27**	**69**	**6**	**1**	**4**	**71.7**	**79.9**
06-00	**25861**	**65**	**24257**	**251**	**896**	**144**	**46**	**49**	**43**	**27**	**72**	**6**	**1**	**4**	**72.1**	**80.3**
00-00	**27437**	**76**	**25723**	**257**	**955**	**165**	**49**	**49**	**45**	**30**	**77**	**6**	**1**	**4**	**72.7**	**81.0**

Example Custom List report with roll days option enabled

The **Split directions** options inserts two rows for each time step, one for each direction. Note that the direction is based on **A>B** and **B>A,** not the compass direction. When combining multiple files with this option, ensure the compass directions match.

Date	Time	Dir	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Mean	Vpp 85
2/03/1998	0000	AB	3962	25	3646	31	239	6	4	1	0	6	3	0	0	1	56.6	64.1
2/03/1998	0000	BA	4467	24	4143	14	263	8	8	1	2	1	2	0	0	1	51.2	63.7
3/03/1998	0000	AB	3841	16	3547	26	237	9	1	1	0	3	0	0	0	1	57.1	65.2
3/03/1998	0000	BA	4238	11	3934	21	258	5	4	2	1	1	1	0	0	0	57.1	64.4
4/03/1998	0000	AB	4075	24	3755	42	234	6	4	3	1	1	3	0	0	2	57.1	64.8
4/03/1998	0000	BA	4488	19	4175	26	257	5	3	2	0	0	1	0	0	0	57.3	64.4
5/03/1998	0000	AB	4143	22	3805	41	255	7	6	2	3	0	0	0	0	2	57.2	65.2
5/03/1998	0000	BA	4512	24	4189	23	258	3	8	4	1	1	1	0	0	0	53.9	64.1
6/03/1998	0000	AB	4361	18	4031	47	247	8	2	1	4	1	1	0	0	1	56.6	64.4
6/03/1998	0000	BA	4541	13	4235	16	256	9	7	1	2	2	0	0	0	0	51.9	63.4
7/03/1998	0000	AB	2991	12	2819	23	128	3	1	1	2	0	0	0	0	2	58.3	66.6
7/03/1998	0000	BA	3246	6	3087	13	136	3	0	0	0	0	1	0	0	0	58.3	66.2
8/03/1998	0000	AB	2659	21	2591	14	31	1	1	0	0	0	0	0	0	0	58.0	65.9
8/03/1998	0000	BA	2741	12	2669	16	40	3	0	0	0	0	0	0	1	0	58.4	66.2
-	07-19	AB	20675	103	18999	200	1274	39	17	9	10	9	7	0	0	8	56.9	64.8
-	07-19	BA	23056	94	21409	121	1341	34	29	10	6	4	6	0	1	1	54.2	64.1
-	06-22	AB	24107	117	22333	215	1339	40	18	9	10	10	7	0	0	9	57.0	64.8
-	06-22	BA	26723	108	24983	128	1409	36	30	10	6	5	6	0	1	1	54.9	64.4
-	06-00	AB	25110	117	23318	218	1354	40	18	9	10	10	7	0	0	9	57.1	64.8
-	06-00	BA	27665	109	25901	129	1431	36	30	10	6	5	6	0	1	1	55.0	64.4
-	00-00	AB	26032	138	24194	224	1371	40	19	9	10	11	7	0	0	9	57.2	65.2
-	00-00	BA	28233	109	26432	129	1468	36	30	10	6	5	6	0	1	1	55.1	64.4

Custom List with 24-hour time step and Split Directions option

Partial Totals

The **Include totals** formatting option by default includes a 24-hour total (00:00-00:00), as well as the common 12-hour (07:00-19:00), 16-hour (06:00-22:00) and 18-hour (06:00-00:00) partial totals. These can be changed or removed on the **Advanced** page of the Custom List Properties.

Time	Total	Vpp 85	MeanX 80
0000	643	89.6	87.3
0100	382	90.4	87.9
...	...	...	...
2200	1843	87.1	86.5
2300	1161	87.8	86.5
07-19	70079	79.9	84.2
06-22	82673	81.4	84.6
06-00	85677	81.7	84.7
00-00	89841	82.4	85.1

Editing Custom List Partial Totals

Double-click any of the Partial Totals to edit the time range. To disable a Partial Total set the start and end hours to the same value, except for 00:00-00:00 which is the 24-hour total. A disabled Partial Total will display **Off** and will not be displayed in the totals block.

Virtual Day/Week

The **Append a Virtual Day** or **Week** options include a virtualised summary of the data at the end of the Custom List report.

A virtual day represents a "typical" 24 hour period, using one hour per row. A virtual week represents a "typical" week, with a row per day. Data is accumulated for all the matching times, and then recalculated. The summaries are not just an average of previously calculated rows, totals or statistics.

Time	-/n	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Vpp 85	MeanX 80
0000	21	349	1	337	1	5	2	0	0	0	1	1	0	0	0	91.1	87.8
0100	21	189	0	181	1	4	1	0	0	0	1	1	0	0	0	92.2	88.4
0200	21	143	0	135	1	6	1	0	0	0	0	0	0	0	0	94.0	89.5
0300	21	179	0	170	1	4	2	0	0	0	0	0	0	0	0	93.2	89.0
0400	21	375	1	359	2	10	1	1	0	0	0	0	0	0	0	92.5	88.0
0500	21	979	7	928	5	27	7	2	1	1	0	1	0	0	0	91.4	87.4
0600	21	2132	10	1992	30	77	10	3	1	3	1	4	0	0	0	86.8	85.5
0700	21	2909	12	2762	28	78	10	4	2	3	2	6	1	0	0	82.8	84.5
0800	21	2798	14	2650	23	77	12	4	2	5	2	8	1	0	0	82.4	84.8
0900	21	2422	9	2247	26	99	13	4	4	5	4	11	1	0	0	83.5	84.9
1000	21	2312	6	2110	29	119	17	5	5	5	3	12	1	0	0	84.2	85.0
1100	21	2550	8	2338	30	122	19	5	5	7	4	13	1	0	0	83.5	84.8
1200	21	2571	8	2362	30	121	17	4	4	5	4	13	1	0	0	83.9	84.9
1300	21	2514	10	2313	33	108	17	5	4	6	4	12	1	0	1	84.2	84.9
1400	21	2677	9	2470	36	114	15	4	5	6	4	11	1	0	1	83.5	84.9
1500	21	2936	12	2748	35	102	13	2	3	5	4	10	1	0	1	82.8	84.8
1600	21	3348	16	3180	32	91	8	2	4	5	3	7	0	0	1	81.4	84.7
1700	21	3517	14	3397	25	65	4	1	2	2	1	4	0	0	0	81.4	84.5
1800	21	2392	9	2334	12	28	4	0	1	1	1	2	0	0	0	85.3	85.2
1900	21	1478	4	1446	7	15	2	0	1	0	0	3	0	0	0	87.5	85.9
2000	21	1114	4	1088	4	12	3	0	0	0	0	2	0	0	0	88.2	86.3
2100	21	1130	4	1108	3	10	2	0	0	0	0	2	0	0	0	87.8	86.2
2200	21	941	3	920	2	12	2	0	0	0	0	1	0	0	0	88.2	86.4
2300	21	590	1	575	1	9	2	0	0	0	1	1	0	0	0	89.3	87.0
07-19	**21**	**32945**	**127**	**30910**	**339**	**1122**	**149**	**39**	**42**	**55**	**37**	**108**	**9**	**2**	**5**	**83.2**	**84.8**
06-22	**21**	**38799**	**149**	**36544**	**383**	**1235**	**167**	**43**	**44**	**59**	**39**	**119**	**9**	**2**	**6**	**84.2**	**85.1**
06-00	**21**	**40330**	**154**	**38038**	**387**	**1255**	**171**	**43**	**45**	**59**	**40**	**122**	**9**	**2**	**6**	**84.2**	**85.2**
00-00	**21**	**42544**	**164**	**40148**	**397**	**1311**	**185**	**47**	**46**	**61**	**43**	**125**	**9**	**2**	**6**	**84.6**	**85.5**

Time	-/n	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Vpp 85	MeanX 80
Mon	3	44450	156	41584	412	1639	244	56	56	73	56	158	11	2	2	84.2	85.2
Tue	3	46757	177	43768	415	1699	250	60	55	80	53	179	12	3	7	84.2	85.2
Wed	3	47722	175	44807	432	1610	243	68	59	80	56	170	13	1	6	83.9	85.3
Thu	3	47779	181	44830	423	1676	232	59	59	77	60	161	11	4	7	83.9	85.2
Fri	3	48460	204	45368	488	1728	238	65	58	83	59	145	13	4	8	84.2	85.3
|Sat	3	34674	138	33462	346	532	65	14	25	26	13	42	5	1	5	86.8	86.0
|Sun	3	27964	118	27215	260	292	23	5	11	9	4	22	1	0	4	87.1	86.1
--	**3**	**297806**	**1148**	**281035**	**2776**	**9176**	**1296**	**328**	**322**	**427**	**301**	**877**	**66**	**15**	**39**	**84.6**	**85.5**

Custom List Virtual Day and Virtual Week

Careful attention should be paid to the start and finish time alignment in the Profile when including virtual summaries. When using the virtual day, the Profile duration should be a whole number of days. When using the virtual week, the Profile duration should be a whole number of weeks. This ensures that averages are not skewed by including part of an hour or day that was only partially recorded. The whole number of days and weeks can be unaligned (not aligned to midnight). The Profile's time **Auto-Wrap** options assist in selecting an appropriate time range.

If the Profile is not appropriately set, the title will indicate partial data, such as **** Virtual Day (Partial days = 7.06)** or **** Virtual Week (Partial weeks = 1.01).** In these cases, total rows (if selected) will not be shown.

Grand Total

The **Append Grand Total** option includes an aggregate row for the entire range of data. Like the Virtual Day and Week, these values are calculated from all the underlying data, not from previously calculated rows, totals or statistics.

Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Cls 11	Cls 12	Cls 13	Vpp 85	MeanX 80
--	893418	3445	843104	8328	27527	3888	983	967	1282	904	2631	197	45	117	84.6	85.5

Custom List Grand Total

Individual Vehicle Steps

The **Emit every vehicle** option creates a row for every vehicle. The special **Vehicle parameter** group of fields contain fields similar to those found in the **Individual Vehicles** report.



```
           Date-Time  Speed Dir Wbase   Hdwy     Gap Ax Gp Vehicle Pic
1993-09-20 13:01:25   76.5  AB    3.1    2.4     2.3  2  2 o  o
1993-09-20 13:01:27   82.3  AB    2.9    2.2     2.1  2  2 o o
1993-09-20 13:01:47   83.8  AB    9.1   20.5    20.4  3  3 o  o       o
1993-09-20 13:01:59   83.8  AB   14.3   11.6    11.2  6  3 o  oo      ooo
1993-09-20 13:02:33   80.2  AB    3.0   34.2    33.6  2  2 o o
1993-09-20 13:02:58   85.2  AB    2.5   24.8    24.6  2  2 o o
1993-09-20 13:03:26   77.7  AB    7.4   28.2    28.1  3  2 o      oo
1993-09-20 13:03:33   76.3  AB    5.8    7.1     6.7  2  2 o     o
1993-09-20 13:03:37   76.3  AB   19.7    4.0     3.8  8  4 o  oo     ooo   oo
1993-09-20 13:03:51   79.9  AB    1.9   14.1    13.2  2  1 oo
```

Custom List report with Individual Vehicles

Using the **Suppress steps** Time Step option, all other Custom List fields will be ignored, producing a report with just individual vehicles. If a Time Step is selected, they will be interspersed with the individual vehicles.

Page Layout

If the width of the selected fields in a Custom List report exceed the width of the page, the **Autoscale to fit page width** will automatically reduce the size of the report's font. If the font becomes too small to read, a landscape page layout may be preferable.
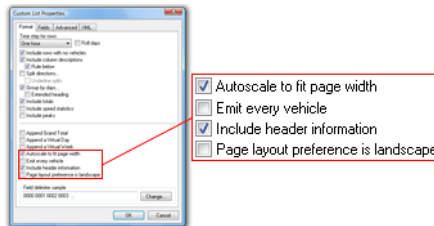
Custom List page layout options

The **Include header information** option includes the standard MetroCount report header at the start of the Custom List report, as well as a column legend for the selected fields.

Field Delimiters

Fields or columns in a Custom List report are separated by a space character by default. To change this to another character, such as a comma for exporting to a spreadsheet, click the **Change** button at the bottom of the **Format** page. Each field can optionally be enclosed in another character, such as a double quote.
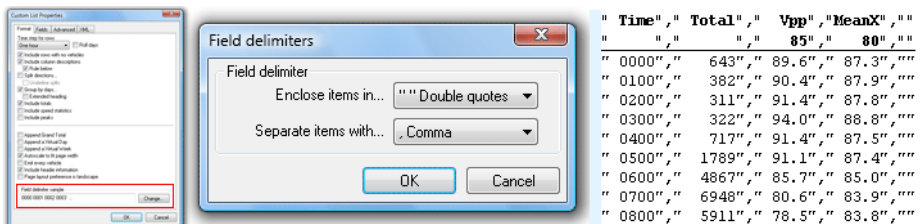
Custom List Field Delimiters

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.
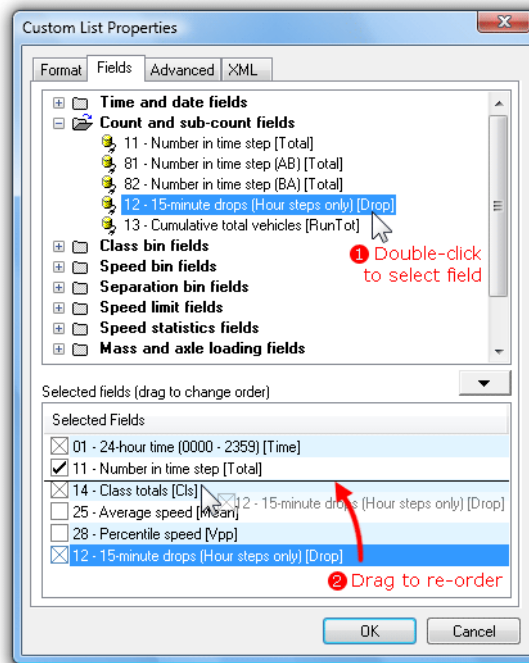
Selecting Custom List Fields

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.

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.
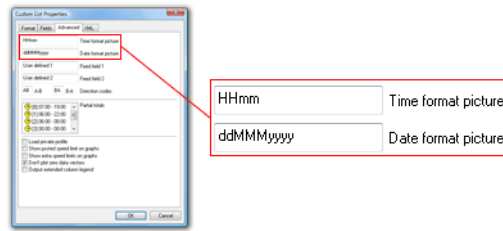
Custom List user defined date and time pictures

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]                    AB     BA    |  --00  --15  --30  --45 |
  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 |   Cl%   Cl%   Cl%
  14 - Class totals [Cls]                 |    1    2    3 |     1     2     3
  15 - Class percentages [Cl%]  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  Vbin  Vbin  Vbin |   Vb%    Vb%    Vb%   Vb% |   vRate
📂 Speed bin fields                 0    60    80   100 |    0     60     80   100 |
  🔧 16 - Speed bin totals [Vbin]             60    80   100   200 |   60     80    100   200 |
  🔧 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.

```
                           Time Total |  Sep   Sep   Sep   Sep    Sep  |  Sep%  Sep%  Sep%  Sep%    Sep% |  sRate
📂 Separation bin fields                0.00  0.50  1.00  2.00    4.00 |  0.00  0.50  1.00  2.00    4.00
  🔧 41 - Separation bin totals [Sep]           0.50  1.00  2.00  4.00 1000.00 |  0.50  1.00  2.00  4.00 1000.00
  🔧 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.

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.

Custom List Formatting Fields

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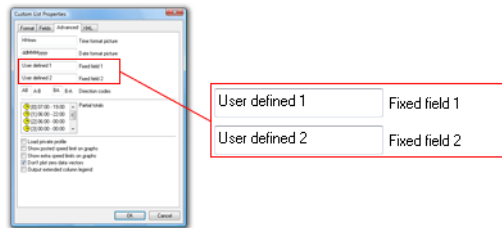
Custom List user defined fields

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.

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.
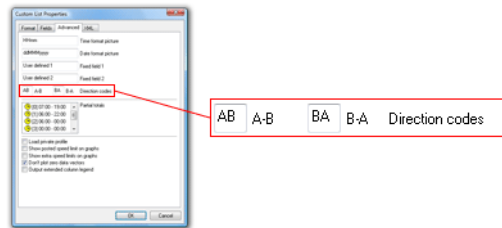
Custom List direction codes

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.


Custom List Vehicle Parameter Fields

Custom List Chart

Split Window

The Custom List report is a dual-pane split report, with a time-based chart on the right where fields included in the report can be optionally plotted. The entire time range of data is included in the chart, with the time step as the integration time.

Like dual-pane graphical reports, the left pane is the primary pane, with access to the report's Local Profile, datasets and Custom List Properties via the right-click menu.
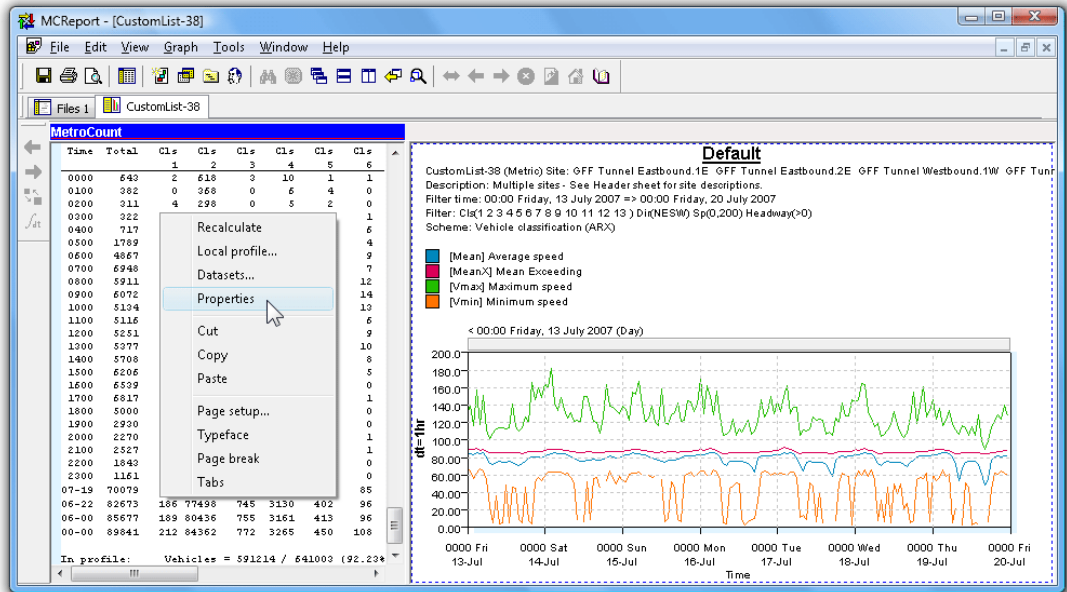

Custom List Chart

To print or save the Custom List chart it must first be activated by clicking anywhere within its pane. The blue MetroCount bar indicates the active pane, which print and save operations relate to. The usual graph rendering and scaling properties can be changed via the **Graph** menu in MCReport's main menu.

Selecting Fields

The check box next to each selected field in the Custom List report's Properties is used to include the field in the Custom List chart. Fields with a cross in the check box cannot be plotted.
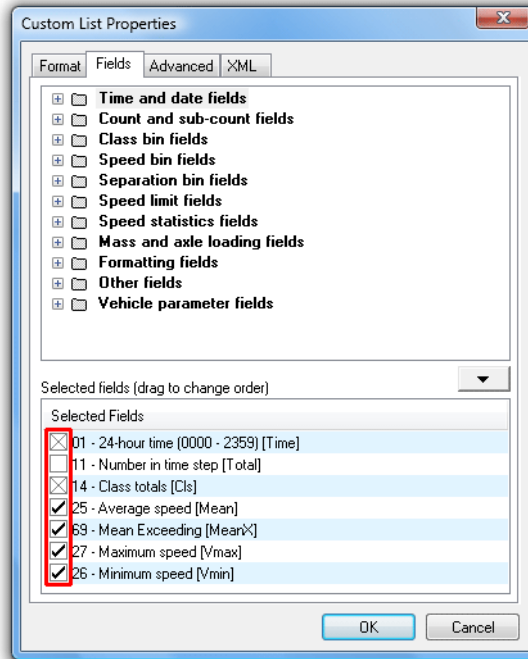
Selecting fields to plot

All selected fields are plotted on one vertical axis, so for best results, only select fields with a similar range in values.

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