

Part 4 explained the process of loading and submitting test data for analysis. Using the test data set portrayed in Part 4, lets run through an example output. In this test data set, we wish to test all variables from Sites TRA302, TRA307 and TRA311. Selection of these sites gives the following display:

6 🖬	8 *	i	Compare t	est data aga	ainst refere	ence data.					
ATESITECODE	RPWD F	Run (H	PH	TURB	BRGR	EROS	RESA	REAL	HSCO	SUBS	CHAL
TRA301	5.0	<u>т.</u> D	8.28	4.3	5.0	2	40	2	97	15	13
TRA302	10.0	1.0	3.21	3.8	5.0	2	5	1	124	16	13
TRA303	5.0	2.5	7.99	18.1	22.5	2	20	3	120	17	13
TRA304	10.0	3.0	8.75	8.4	20.0	2	30	1	112	17	15
TRA305	5.0	1.0	8.29	9.0	2.5	1	20	1	116	19	15
TRA306	5.0	1.5	6.78	3.0	10.0	2	10	4	117	20	15
TRA307	0.5	1.0	7.64	1.5	10.0	2	15	5	105	15	14
TRA308	4.0	1.5	7.10	29.6	10.0	2	10	1	126	18	14
TRA309	3.0	1.5	7.27	4.2	5.0	2	20	1	116	17	15
TRA310	5.0	1.5	7.73	0.0	5.0	1	5	3	118	20	15
TRA311	0.5	4.2	7.68	76.9	85.0	4	50	1	71	8	11
TRA312	4.0	2.0	-999.00	-999.0	2.5	1	15	1	119	19	15
TRA313	4.0	1.5	7.17	0.1	2.5	1	20	1	104	17	15
TRA314	2.0	0.8	7.07	7.5	5.0	2	10	1	88	19	15
TRA315	4.0	1.0	6.97	0.6	7.5	1	15	1	77	19	15
TRA316	5.0	1.5	7.52	5.8	35.0	3	5	1	105	19	15
TRA317	2.0	1.0	6.78	6.5	40.0	2	30	2	72	17	15
TRA318	2.0	1.5	6.03	45.0	20.0	3	5	1	80	10	1
TRA319	5.0	1.5	7.31	30.0	5.0	2	35	1	107	17	13
TRA320	2.0	1.5	6.90	20.0	30.0	3	40	1	119	11	11
TRA321	2.5	1.5	7.44	3.1	32.5	3	35	2	104	14	9
TRA322	3.0	1.5	6.37	6.8	5.0	2	5	2	87	8	15

5.1 What are the outputs?

Submission of these three sites for analysis brings up the following output. Each variable is displayed on a separate tab. The user can peruse different variables by clicking on the required tab. Note that the output creates a new window.



In addition to the tab for each variable, the output also includes tabs that detail data count, unused variables and out of range variables. Each component of the output will be explained in the following sections.

5.1.1 Continuous variable tabs

The output of any continuous variable is a boxplot, calculated using the reference site data. The test site values are then arrayed on to this box plot. Note that all three test sites selected for analysis are arrayed onto the plot. Thus, it is important to limit the number of sites tested in any analysis to 5-10, so that plot symbols can be viewed accurately. **Information on the interpretation of box plots is provided in Part 6**.

Four box plots are presented on the x axis of this example. The ACT combined riffle AUSRIVAS model contains three classification groups, and a box plot is presented for each of these. A box plot is also presented for all the sites included in the ACT combined riffle model, regardless of classification group. The y axis details the units of measurement and the scale.



5.1.2 Categorical variable tabs

The output for any categorical variable consists of three components. The first is a frequency table, calculated using the reference site data. This frequency table displays the number of reference sites in each classification group that belong to each data category. It also displays the total number of reference sites that belong to each data category. The second component displays the data category recorded at each selected test site. The third component explains the data categories. **Information on the interpretation of frequency tables is provided in Part 6.**

RESA RPWD	1	REAL BNKH)		HSCO	1	UBS	CHAL	J	Data Count EROS
RPVVD	1				PH	1 ⁿ		BRGR		ERUS
ocal catcl	hmen	t er	osio	n						
Reference D	ata Sei	t: Nu	ımbeı	ofs	sites per c	ategory	/			
		Dat	a Cate	gory						
Reference Site	e Group	1	2	3 4	ł		Compo	nent 1		
Group 1		7	19	5 O		-	-	cy table		
Group 2		7	6	1 0						
Group 3		16	13	1 0						
Total over all g	roups	30	38	7 0	-					
est Sites: D	ata Ca	togo								
est sites: D	ala Ca	legu		eau	LITSILE					
Test Site [Data Cat	egor	v				mponen	t 2		
Site TRA302 2	2					Tes	st sites			
Site TRA307 2	2									
Site TRA307 2	2		-							
	2		-							
Cit- TD4011	a	riffle								
Cit- TRACIT	a	-riffle								
cite_TD4011	a	REAL	-		HSCO	1	SUBS	CHAL	J	Data Count
cite_TP+011	a				HSCO PH	1	SUBS	CHAL BRGR		
cite_TD40111	_combined	REAL BNKH				1			Ĵ	Data Count
Cite TDAO111	_combined	REAL BNKH	_			1			Ĵ	Data Count
Act-autumn_spring RESA RPWD Test Site Site TRA302	_combined Data Ca	REAL BNKH	_			1				Data Count
Cite TRA302 RESA RPWD Site TRA302 Site TRA307	_combined	REAL BNKH	_			1				Data Count
Cite TRA302	_combined Data Ca	REAL BNKH	_			1				Data Count
Cite TRA011	_combined Data Ca 2 2	REAL BNKH	_			1	TURB	BRGR		Data Count
Cite TRA311	combined Data Ca 2 2 4 escriptio	REAL BNKH tegoi	r y		PH	1	Сот	BRGR	tions	Data Count
Cite TRADIT	combined Data Ca 2 2 4 escriptic	REAL BNKH tegoi	_	ption	PH	1	Сот	BRGR	otions	Data Count
Site TRA302 RESA RPWD Test Site Site TRA302 Site TRA307 Site TRA307 Site TRA307 Data Category 1	combined	REAL BNKH tegoi DDS gory	r y	ption	PH	1	Сот	BRGR	otions	Data Count
Cite TRA301 A RESA RPWD Test Site Site TRA302 Site TRA307 Site TRA307 Site TRA307 Site TRA311 C Category de Data Category 1	Combined	REAL BNKH tegoi DDS gory	r y	ption	PH	1	Сот	BRGR	otions	Data Count
Cite TRA302 Site TRA307 Site TRA307 Site TRA311 Category de Data Category 1 2 3	combined Data Ca 2 2 4 v Cate some some mode	REAL BNKH tegon DDS gory	r y	ption	PH	1	Сот	BRGR	otions	Data Count
Cite TRA301 C RESA RPWD CITEST Site TRA302 Site TRA307 Site TRA307 Site TRA307 Site TRA307 Site TRA311 C Site TRA311 C Category de C Data Category 1	Combined	REAL BNKH tegon DDS gory	r y	ption	PH	1	Сот	BRGR	otions	Data Count
Cite TRASHI	Combined	REAL BNKH tegon DDS gory rate	Descri		PH		Comp Categ	BRGR	otions	Data Count

5.1.3 Data count tab

The data count tab details the number of REFERENCE SITES in each group, for each variable. It also details the number of REFERENCE SITES that contain missing

data (i.e a -999 value). The data count tab forms an important adjunct to the boxplots and frequency tables because it is important to know the properties of the data that form these outputs. For example, a classification group may have 24 members, but 12 of these contain missing data for a particular variable. Thus, the user must decide whether a box plot or frequency table created from only 50% of sites in that classification group is valid. Information on missing data in a reference data set is provided in Section 7.2.1.1.

RPWD	BNKH	РН	TURB	BRGR	EROS
RESA	REAL	НЅСО	SUBS 1	CHAL	Data Count
Total over all groups	75	0			
ocal catchment er	osion				
Reference Site Group	N	umber of sites			
kererence site Group	Total	With Missing Data			
Group 1	31	0			
Group 2	14	0			
Group 3	30	0			
rotal over all groups	75	0			
each sand cover					
	N	umber of sites			
Reference Site Group	Total	With Missing Data			
Group 1	31	O			

5.1.4 Unused variables tab

In the present example, the unused variables tab does not appear because all the selected variables were present in the reference data set. However, in cases where test site variables do not appear in the reference data set, these are returned on the unused variables tab. As mentioned in Section 3.2.4, it is not a problem to include additional variables in the test data set. However, variables returned onto the unused variables tab may indicate an error in entry of an acronym and should be checked accordingly (see Section 5.1.6 common errors). The unused variables tab resembles the following:



5.1.5 Out of range variables tab

In the present example, the out of range variables tab does not appear. However, in cases where the entered value of any variable is outside the expected range, these cells are returned to the out of range variables tab. These out of range variables are included in the boxplots and frequency table outputs, so it is important for the user to check the test data set if the out of range variables tab appears. Values should then be corrected in the test data set and resubmitted for analysis. Further information on the setting of valid ranges on the reference variables information sheet is provided in Section 7.3.

EROS		RESA	1	REAL		sco	SUBS
RPWD CHAL		BNKH ta Count	PH TU Warning: Data out of range			URB	BRGR
arning: Test e following test site	data a	are outside t	he expe:	cted range:		are 1-5	algae categories 5. A category of
Test Data Variable C	ode	Test Site	Value	Expected Ra	nge	0 is an	invalid entry.
REAL		TRA303	0	1:2:3:4:5		The U	SEPA habitat
HSCO IOTE: These data are This information is supp			-		of gross ei	be betw	ment score should ween 1 and 135.
his page last modified							

5.1.6 Common problems with outputs

Some problems that may be encountered in the outputs are detailed in the following sections.

Analysis of missing data

Analysis of missing data cells in continuous variables (i.e. cells containing -999 values) will result in skewed box plots. For example, analysis of turbidity at all sites is selected as follows:

	ettings	000000											
ð (đ.	i									
TATESITE	CODE	RP ⁴	wD	BNKH	PH	TURB	BRGR	EROS	RESA	REAL	HSCO	SUBS	:H
TRA30		5.	0	1.0	8.28	4.3	5.0	2	40	2	97	15	1
TRA30	2	10	.0	1.0	3.21	3.8	5.0	2	5	1	124	16	1
TRA30		5.	0	2.5	7.99	18.1	22.5	2	20	3	120	17	1
TRA30	4	10	.0	3.0	8.75	8.4	20.0	2	30	1	112	17	1
TRA30	5	5.	0	1.0	8.29	9.0	2.5	1	20	1	116	19	1
TRA30		5.	0	1.5	6.78	3.0	10.0	2	10	4	117	20	1
TRA30	7	0.	5	1.0	7.64	1.5	10.0	2	15	5	105	15	1
TRA30		4.	0	1.5	7.10	29.6	10.0	2	10	1	126	18	1
TRA30		3.	0	1.5	7.27	4.2	5.0	2	20	1	116	17	1
TRA31		5.	0	1.5	7.73	0.0	5.0	1	5	3	118	20	1
TRA31		0.	5	4.2	7.68	76.9	85.0	4	50	1	71	8	1
TRA31	2	4.	0	2.0	-999.00	-999.0	2.5	1	15	1	119	19	1
TRA31	3	4.	0	1.5	7.17	0.1	2.5	1	20	1	104	17	1
TRA31	4	2.	0	0.8	7.07	7.5	5.0	2	10	1	88	19	1
TRA31	5	4.	0	1.0	6.97	0.6	7.5	1	15	1	77	19	1
TRA31		5.	0	1.5	7.52	5.8	35.0	3	5	1	105	19	1
TRA31	7	2.	0	1.0	6.78	6.5	40.0	2	30	2	72	17	1
TRA31		2.	0	1.5	6.03	45.0	20.0	3	5	1	80	10	
TRA31		5.	0	1.5	7.31	30.0	5.0	2	35	1	107	17	1
TRA32		2.	0	1.5	6.90	20.0	30.0	3	40	1	119	11	1
TRA32		2.	5	1.5	7.44	3.1	32.5	3	35	2	104	14	
TRA32	2	3.	0	1.5	6.37	6.8	5.0	2	5	2	87	8	1
19000000	000000	0.000.00	0.0.0.0.0.0						1		1		
rrent mode	ŀ	act-aul	tumn sr	ring combin	ed-riffle								

And results in the following output, where data values are skewed to include the test site value of -999 that occurs at site TRA312.



The **solution** is to only highlight cells without missing data, by holding down the <CONRTOL> key and clicking on the cells required.

		Settings		Help A	i									
337	1000	CODE	BP1		BNKH	PH	TURB	BRGR	EROS	RESA	REAL	HSCO	SUBS	:H
	TRA30)1	5.	0	1.0	8.28	4.3	5.0	2	40	2	97	15	1
	TRA30)2	10	1.0	1.0	3.21	3.8	5.0	2	5	1	124	16	1
	TRA30		5.	.0	2.5	7.99	18.1	22.5	2	20	3	120	17	1
	TRA30)4	10	1.0	3.0	8.75	8.4	20.0	2	30	1	112	17	1
	TRA30)5	5.	.0	1.0	8.29	9.0	2.5	1	20	1	116	19	1
	TRA30		5.	.0	1.5	6.78	3.0	10.0	2	10	4	117	20	1
	TRA30		0.	.5	1.0	7.64	1.5	10.0	2	15	5	105	15	1
	TRA30		4.	0	1.5	7.10	29.6	10.0	2	10	1	126	18	1
	TRA30		3.	0	1.5	7.27	4.2	5.0	2	20	1	116	17	1
	TRA31		5.	.0	1.5	7.73	0.0	5.0	1	5	3	118	20	1
	TRA31		0.	5	4.2	7.68	76.9	85.0	4	50	1	71	8	1
	TRA31		4.	0	2.0	-999.00	-999.0	2.5	1	15	1	119	19	1
	TRA31		4.	.0	1.5	7.17	0.1	2.5	1	20	1	104	17	1
	TRA31		2.	0	0.8	7.07	7.5	5.0	2	10	1	88	19	1
	TRA31		4.	0	1.0	6.97	0.6	7.5	1	15	1	77	19	1
	TRA31		5.	0	1.5	7.52	5.8	35.0	3	5	1	105	19	1
	TRA31		2.	0	1.0	6.78	6.5	40.0	2	30	2	72	17	1
	TRA31		2.	0	1.5	6.03	45.0	20.0	3	5	1	80	10	·
	TRA31		5.	0	1.5	7.31	30.0	5.0	2	35	1	107	17	1
	TRA32		2.	0	1.5	6.90	20.0	30.0	3	40	1	119	11	1
	TRA32		2.	5	1.5	7.44	3.1	32.5	3	35	2	104	14	
	TRA32	22	3.	0	1.5	6.37	6.8	5.0	2	5	2	87	8	1
34	999993	1999999												

Error in acronym name

An error in any acronym name contained in the test data set will be returned to the unused variables tab.

<mark>%</mark> act-autumn_spring_c <u>Fil</u> e	ombined-riffle				
RPVVD	BNKH	РН	TURB	BRGR	EROS
REAL	HSCO	SUBS	CHAL	Data Count	Unused variables
The following test RESAND Possible reasons in 1. The variable 2. The variable 3. A data colum This page last mod	code is incorrect; is not used in the s nn was selected tha dified at 2001-07-20	e not used. selected model; at doesn't contain v. 9 14:09:28 AUS Easte		1.0	

The **solution** is to check the acronym names used in the test data set against those in the reference data set. This is done by viewing the **reference variables information sheet**. The reference variables information sheet is accessed via the "View" menu (see also Section 3.2.2).

		Reference Variables Informat (act-autumn_spring_combin					
Acronym	Full name	Unit of measurement	Variable	e type	Decimal places	Valid range/values	Description
REAL	Reach filamentous algae cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	IO: Catego	rical	0	1:2:3:4:5	Reach filamer
REBE	Reach bedrock cover	%	Continu	lous	0	>=0:<=100	Reach bedro
REBO	Reach boulder cover			pus	0	>=0:<=100	Reach boulde
RECL	Reach clay cover	The acronym for rea	ch	ous	0	>=0:<=100	Reach clay c
RECO	Reach cobble cover	sand cover should be	e	ous	0	>=0:<=100	Reach cobble
REDE	Reach detritus cover	RESA not RESAND		ous	0	>=0:<=100	Reach detritu
REGR	Reach gravel cover	KESA IIOI KESANL	,	ous	0	>=0:<=100	Reach grave
REMA	Reach macrophyte cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	10: Catego	rical	0	1:2:3:4:5	Reach macro
REMO	Reach moss cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	10: Catego	rical	0	1:2:3:4:5	Reach moss
REMU	Reach muck/mud cover	%	Continu	lous	0	>=0:<=100	Reach muck.
PErt	Reach pebble cover	%	Continu	lous	0	>=0:<=100	Reach pebbl
REPI	Reach periphyton cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	10: Catego	rical	0	1:2:3:4:5	Reach periph
RESA	Reach sand cover	%	Continu	lous	0	>=0:<=100	Reach sand
RESI	Reach silt cover	%	Continu	lous	0	>=0:<=100	Reach silt co
RGRA	Hime graver cover	%	Continu	lous	0	>=0:<=100	Riffle gravel o
RMAC	Riffle macrophyte cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	10: Catego	rical	0	1:2:3:4:5	Riffle macrop
RMOS	Riffle moss cover	1=<10%: 2=10-35%: 3=35-65%: 4=65-9	10: Catego	rical	0	1:2:3:4:5	Riffle moss co
RMUC	Riffle muck/mud cover	%	Continu	ious	0	>=0:<=100	Riffle muck/n
RPEB	Riffle pebble cover	%	Continu	lous	0	>=0:<=100	Riffle pebble
RPER	Riffle periphyton cover	1=<10% : 2=10-35% : 3=35-65% : 4=65-9	10: Catego	rical	0	1:2:3:4:5	Riffle periphyl
RPWD	Riparian width	m	Continu	lous	1	>=0	Riparian widt
RSAN	Riffle sand cover	%	Continu	lous	0	>=0:<=100	Riffle sand co

Boxplots difficult to view

As discussed in Section 5.1.1, selection of more than 5-10 sites for analysis will result in a boxplot that is difficult to view, because some symbols will be hidden behind others.



If the output is difficult to read, the **solution** is to submit fewer sites per analysis.

5.2 Saving and printing the outputs

The procedure for saving and printing outputs differs for continuous and categorical variables. Each procedure will be detailed in the following sections.

5.2.1 Saving and printing outputs from continuous variables

To save or print the output of a continuous variable (i.e. graphs), the output needs to first be saved as an encapsulated postscript (.eps) file. Each continuous variable output is saved as a separate .eps file. Move to the tab that you wish to save and choose "Print to file" from the "File" menu.



A standard file browser is displayed. Find the location for the save. Type in the file name (it is recommended that this name includes details of the sites analysed and the variable) and choose the (*.eps) file type from the "Save as type" menu.



This saved .eps format file can then be opened and printed in a number of applications, as follows.

Graphics packages

The .eps file can be opened directly into graphics packages such as Paint Shop Pro or Adobe Acrobat (not Acrobat reader). Another package that is useful for viewing .eps files is GSView. This program (Version 3.6) is free and can be down loaded from the Internet at:

http://www.ghostscript.com

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File	Edit View Capture Help	
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10000000	elp, press F1	
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The print function of the graphics package is then used to print the file.



Microsoft Word or Powerpoint

The .eps file can be printed in Word and Powerpoint. However, the .eps file can not be viewed in these packages because they do not 'know' how to display encapsulated postscript files. To print a saved .eps file from Word or Powerpoint, first insert the file as a picture:



W Microsoft Word - Document1	- 8 ×
Eile Edit View Insert Format Iools Table Window Help	_ 8 ×
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document	
T Float over text	
Find files that match these search criteria:	
÷ File name: Text or property: Find Now	
Files of type: All Pictures (*.emf;*.ipg;*.jpeg;* Last modified: any time	
i file(s) found.	
t file(s) found.	
Graph not displayed as preview	*
Graph not displayed as preview	U *
	P
]] Draw + 🔖 🍪 AutoShapes + 🔨 🔍 🗆 〇 淤 🕋 🖽 🍇 🍇 🍇 🛸 🐃 🖏 🦓 🔌 + 🚄 + 📥 🛱 🗮 🍯	
Page 1 Sec 1 1/1 At 2cm Ln 1 Col 1 REC TRK EXT OVR WPH	
🏽 Start 🛛 🖉 🍜 🏨 👿 🖻 🗞 💥 🐺 🚫 📉 🔤 🏨 M 🔍 E 👿 M 🦄 P 74 A 74 a 👿 M.	3:10 PM

Note that the graph is not displayed as the preview. However, proceed to insert this file, which will look similar to the following.



Use the print function of the package to print what you see on the screen. This will allow the graph to be printed, because the package 'knows' how to read the inserted .eps file.



5.2.2 Saving and printing categorical variable outputs

To save or print the output of a categorical variable (i.e. frequency tables), the output needs to first be saved as either a Hyper Text Markup Language (.html) or a comma delimited (.csv) file. Each categorical variable output is saved as a separate file. Move to the tab that you wish to save and choose "Save" from the "File" menu.

ave	1	REAL		T		нѕсо	SUBS	CHAL	Data Count
int to file	1	BNKH		1		PH	TURB	BRGR	EROS
int Options	osi	on							
					c				
eference	Data Se	t: Nu	imbe	er o	t sit	tes per ca	ategory		
		Dat	a Cat	ego	iry				
leference Si	ite Group	1	2	3	4				
Group 1		7	19	5	O				
Group 2		7	6	1	0				
Group 3		16	13	1	0				
otal over all	groups	30	38	7	0				
	D-+- C-	•			1-	:			
est Sites:	Data Ca	tego	ory it	or e	acr	i site			
Test Site	Data Cat	egor	y						
ite TRA302	2		7						
Site TRA307	2								
- TRACIN									
		1. S. 1. S. 1. S. 1.	S. S. Startes	1975	1.5 300				

A standard file browser is displayed. Find the location for the save. Type in the file name (it is recommended that this name includes details of the sites analysed and the variable) and choose the required file type from the "Save as type" menu.

<mark>7% act-autumn_spring_co</mark> File	mbined-riffle				_8>
RESA RPWD	REAL	HSCO PH	SUBS TURB	CHAL BRGR	Data Count
Local catch	ment erosio	'n			-
Reference Dat	ta Set: Numbe	r of sites per ca	ategory		
Reference Site C	Group	egory		? X	
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The saved .html or .csv file can then be opened and printed as follows.

.CSV Files

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The .csv file can be opened and viewed in Excel (or a similar spread sheet package).

The file can then be printed or saved into spreadsheet format.

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.HTML Files

The .html files can be opened in an Internet browser.



Files are displayed in the browser in the same format as the output tab.

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The print function of the Internet browser is then used to print the output.

5.2.3 Saving and printing outputs of other tabs

The data count, unused variables and out of range tabs are saved in the same way as any categorical variable output (i.e. as a .csv or .html file).