

SURPAC Ver 5.32 for Windows XP/Vista - Areas and Data from Co-ordinates

File General Conversions Least Squares Topographical Engineering Mining Cadastral Help

Actions

- Open a File
- Print File
- File Options
- System Set
- Descriptions
- Add Data
- Delete Data
- Copy Data
- Paste Data
- Find Item
- Find Next

Name	Y Co-ordinate	X Co-ordinate	Heights	Descriptions	F/B	Calc	Label Field #1	Label Field #2
TR 73	65 746,490	885 959,800	1 523,000	031			Bryanston WT	DS 2528
Constants :	0,000	2 000 000,000	0,000	Sys : Lo 27				
167 BZ1	71 599,973	905 591,211		01P		14		
168 C	70 418,732	905 116,620		01A				
169 D	70 485,313	905 346,456		01P				
170 E	70 493,114	905 350,755		01P				
171 F	70 701,783	905 290,302		01P				
172 RM1	70 559,500	905 117,400	1 424,258	29R			SG 2844/93	
173 RM2	70 462,973	905 372,331		29R	7	11	SG 2844/93	
174 RM3	70 716,018	905 287,641		29R	7	11	SG 2844/93	
175 RM52F	70 335,351	905 117,791		29F	6	11		
176 RM55	70 491,403	905 351,491		29R		10		
177 RM67	70 744,342	905 455,227		29R		10		
178 RM67F	70 744,717	905 455,059		01F	8	11		
179 ST2	70 583,233	905 106,588	1 424,856	035				
180 ST3	70 552,184	905 125,000	1 423,450	035				
181 ST4	70 546,050	905 110,000	1 423,892	035				
182 ST5	70 540,292	905 100,000	1 424,043	035				
183 ST7	70 545,312	905 085,130	1 425,192	035				
184 TC	70 809,385	904 989,044		053	1	11		
185 TE	70 643,314	905 032,772		053				
186 TF	70 422,830	905 105,178		043	6	11		
187 TG	70 385,599	905 399,474		053	7	11		
188 TGA	70 346,056	905 235,694		031				
189 TH	70 753,772	905 465,290		043	8	11		
190 TR 30	75 624,540	880 337,200	1 523,300	031				
191 TR 73	65 746,490	885 959,800	1 523,000	031			Bryanston WT	DS 2528
192 TR 95	71 474,270	889 192,500	1 518,200	031				
193 TR104	63 545,650	891 360,390	1 529,400	031			Orlando West	DS 2528
194 TR420	74 360,720	891 203,800	1 508,700	031			Orlando East	DS 2528
195 TR426	68 122,940	894 352,090	1 527,100	031			Kempton DRC	DS 2528
196 TR431	61 190,730	885 016,810	1 532,400	031				
197 TR469	66 457,180	881 885,770	1 529,400	031				
198 TR485	69 878,710	883 189,550	1 524,900	031				
199 TR490	68 940,870	879 753,410	1 526,200	031				

Co-ordinate File = C:\Surpac Software\Samples\L5952 (youngsville township)

13:52:25 19-12-2007

Current File Printed Pages: Pg: 131

SURPAC Calculator

0.

Dms Dec π CE AC

Sin Cos Tan MR MC

Asn Acs Atn M+ M-

√ x² 1/x xY S E

Join Polar X/O X| Y N

Inst FV PV Rate RS ?

7 8 9 ← %

4 5 6 X ÷

1 2 3 + -
















0 . = ←

The CO-ORDINATE FILE EDITING Programme, showing Printed Pages, Calculator and Menu System



## Co-ordinate File Editing

- Defining the Co-ordinate File System using a variety of World Systems, e.g.
  - Southern African "Lo" Grid Systems (Clarke 1880 (Modified) Ellipsoid)
  - South African "WG" Grid System (WGS 84 Ellipsoid)
  - Namibian "Bessel" System (Bessel 1841 Ellipsoid (GL Metres and Int. Metres)
  - U.K. National Grid System, OSGB36, (Airy 1830 Ellipsoid)
  - U.K. National GPS Network, ETRS89, (WGS 84 (GRS80) Ellipsoid)
  - Irish National Grid (Airy 1830 (Modified) Ellipsoid)
  - Universal Transverse Mercator, UTM, (Various Ellipsoids)
  - Co-ordinate axes are automatically designated as [Y, X, Z], or [E, N, H]
- Data in a Co-ordinate File consist of :-
  - Point Number,
  - Point Y - ordinate (or Easting),
  - Point X - ordinate (or Northing),
  - Point Peg Height,
  - Point Auxiliary Height
  - Point Description,

- *Point Field Book Page number*
- *Point Calculation Page number*
- Manual Adding/Editing/Deletion of Points
- Importing of Point Co-ordinate Data from :-
  - ASCII [Y, X, Z] Files (various formats)
  - ASCII [Latitude, Longitude] Files (various formats)
  - DXF Files
  - Other SURPAC Co-ordinate Files
  - A wide range of Electronic Loggers and Total Stations (Direct download, or from ASCII File)
-  The currently supported Total Stations and/or Electronic Loggers are :-
  -  *The Psion Organiser using the "Handi-Data Solutions Booker Ver 5 software,*
  -  *The Psion Workabout, using the "Handi-Data Solutions Booker Ver 6.1", or higher,*
  -  *The Leica/Wild GIF10 data logger,*
  -  *The Leica TC 605/805/905 Series Total Station,*
  -  *The Leica TCR 303/305/307 Series Total Station,*
  -  *The Nikon DTM-400 Series Total Station,*
  -  *The Nikon NPL-300/350/500/700 Series Total Station,*
  -  *The Pentax PCS-300 Series Total Station,*
  -  *The Sokkia SET2C/SET3C Series Total Station,*
  -  *The Sokkia SET2100/SET3100/SET4100 Series Total Station,*
  -  *The Sokkia SET2110/SET3110/SET4110 Series Total Station,*
  -  *The Sokkia SET300, SET500, SET600 Total Station,*
  -  *The Topcon GTS-200/210 Series Total Station,*
  -  *The Topcon GTS-500/700 Series Total Station.*
- Exporting of Point Co-ordinate Data to :-
  - ASCII [Y, X, Z] Files (various formats)
  - ASCII [Latitude, Longitude] Files (various formats)
  - A wide range of Electronic Loggers and Total Stations
  - the Windows Clipboard
- Establishing/Editing of Point Description information.