



Vector Research Pty Ltd

ABN 80 086 727 273

EXPLORATION GEOPHYSICS

7 Robinson Street
Nedlands WA 6009
PO Box 1133
Nedlands WA 6909
Australia

Phone/Fax: + 61 8 9386-8894
Email: info@vecresearch.com
Web: www.vecresearch.com

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TECHNICAL NOTE

Subject: Survey Area to Survey Distance Conversion

To convert survey area in square kilometres (km²) to survey line distance in kilometres (km): select the conversion factor for the survey line spacing from the table below, and multiply this by the area of the survey.

Line Spacing metres	Conversion factor km/km ²
10	111.0
20	55.6
25	44.4
30	37.0
40	27.8
50	22.2
75	14.8
100	11.1
150	7.4
200	5.6
250	4.4
300	3.7
333	3.3
400 (¼ mile)	2.8
500	2.2
750	1.5
800 (½ mile)	1.4
1000	1.11
1500	0.74
1600 (1 mile)	0.70
2000	0.56
2500	0.44
3000	0.37
3200 (2 miles)	0.35

Example 1:

Survey area = 150 square kilometres
Line spacing = 50 metres, conversion = 22.2
Survey distance = 22.2 x 150 = 3,330 kilometres

Example 2:

Survey area = 1500 square kilometres
Line spacing = 200 metres, conversion = 5.6
Survey distance = 5.6 x 1500 = 8,400 kilometres

Example 3:

Survey area = 15,000 square kilometres
Line spacing = 400 metres, conversion = 2.8
Survey distance = 2.8 x 15,000 = 42,000 kilometres

Note: The conversion factors are approximate and include tie lines spaced ten times the survey line distance. They assume that the survey lines are evenly spaced and cover the area precisely. Actual survey distance will vary depending upon straightness and length of the survey lines, their distribution to cover the area, and any infill survey lines present.

1 mile = 1.609 344 kms (exact Australian Standard conversion)

1 sq mile = 2.589 988 sq kms

1 hectare = 0.01 sq kms