

APPENDIX 7 SUMMARY OF QUANTITATIVE RESULTS

This appendix lists the quantitative findings from the analysis of landscape types and the comparison scenes. It provides a succinct coverage of the principal findings from the survey.

Ratings of landscape types

Landscape	Scenes	Mean
Rockfaces	10	6.81
Mountains	22	7.05
High fells	22	5.87
Low fells with mountains	10	6.34
Low fells	11	5.66
Valleys without lakes	9	6.27
Valleys with lakes	25	7.02
Plains	10	4.15
Coast	3	5.56
Streams	4	6.47
Dense trees	5	5.24
Pines with water	8	5.55
Pines without water	8	4.39
Quarries	3	4.95
Roads	4	6.85

Rockfaces

Overall mean 6.81.

Scenes	Land cover		
	Minimal	Moderate	Maximum
Mean	6.78	7.07	6.60

Ratings ranged from 5.73 to 7.73, range 2.0.

Land form on rockface ratings

	$y = 1.50x + 0.82, R^2 = 0.71$
Height	$y = 0.19x + 5.92, R^2 = 0.09$
Steepness	$y = -0.49x + 8.85, R^2 = 0.26$

Mountains

Overall mean 7.05.

Scenes	Land cover		
	Minimal	Moderate	Maximum
Mean	7.27	7.02	5.43

Scenes with water but without pines 7.12
 Scenes without pines and without water 7.11
 Scenes with pines but without water 6.90

Scenes with pines and water 7.05

Ratings ranged from 5.43 to 8.36, range 2.93.

Height	$y = 0.14x + 7.64, R^2 = 0.03$
Steepness	$y = -0.03x + 7.14, R^2 = 0.001$
Diversity	$y = 0.86x + 4.43, R^2 = 0.48$
Naturalness	$y = 0.78x + 4.20, R^2 = 0.37$

High fells

Overall mean 5.87.

Mean	High steep valleys	Wide shallow valleys	Steep slope
	Flattish	Moderate slope	
Mean	7.11	6.99	5.48

Ratings for valleys ranged from 6.0 to 7.39, range 0.58

Ratings for slopes ranged from 3.85 to 6.92, range 3.07.

Diversity	$y = 1.47x + 2.51, R^2 = 0.46$
Naturalness	$y = 0.61x + 3.94, R^2 = 0.16$

Low fells with mountains

Overall mean 6.34.

Scenes	Land cover		
	Minimal	Moderate	Maximum
Mean	6.26	6.48	6.32

Ratings ranged from 5.50 to 6.98, range 1.48.

Diversity	$y = 0.93x + 3.76, R^2 = 0.74$
Naturalness	$y = -0.473x + 7.74, R^2 = 0.25$
Land cover	$y = 0.58x + 4.39, R^2 = 0.36$

Low fells

Overall mean 5.66.

Scenes	Land cover		
	Minimal	Moderate	Maximum
Mean	5.60	6.20	5.16

Ratings ranged from 4.36 to 6.64, range 2.28.

Diversity	$y = 1.16x + 2.61, R^2 = 0.76$
Stone walls	$y = -0.26x + 6.79, R^2 = 0.14$

Valleys without lakes

Overall mean 6.27.

Scene	Land cover	
	Minimal	Moderate
Mean	6.13	6.39

Ratings ranged from 5.55 to 6.93, range 1.38.

Land form $y = 1.55x + 1.21, R^2 = 0.70$
 Land cover $y = 0.54x + 4.45, R^2 = 0.44$
 Naturalness $y = 0.80x + 4.00, R^2 = 0.36$

Valleys with lakes

Overall mean 7.02.

Scene	Area			
	Glimpse	Small	Moderate	Large
Mean	6.71	7.41	6.64	7.33

Water area $y = 0.11x + 6.75, R^2 = 0.12$
 Water significance $y = 0.67x + 4.71, R^2 = 0.29$
 Naturalness $y = 1.20x + 2.98, R^2 = 0.40$

Plains

Overall mean 4.15.

Scene	Land cover		
	Minimal	Moderate	Maximum
Mean	3.54	4.49	4.66

Ratings ranged from 3.21 to 5.77, range 2.56.

Diversity $y = 1.45x + 1.40, R^2 = 0.60$
 Naturalness $y = 0.98x + 1.78, R^2 = 0.61$
 Abundance of land cover
 $y = 0.44x + 2.77, R^2 = 0.53$

Coast

Overall mean 5.56

Ratings ranged from 5.18 to 6.12, range 0.94.

Streams

Overall mean was 6.47.

Range 6.30 to 6.80, a range of 0.50.

Scene	Small	Medium	Large
Mean	6.35	6.40	6.80

Dense trees

Overall mean was 5.24.

Range 4.30 to 6.94, range 2.64.

Pines

Overall mean 5.55.
 High rating due to underlying land form.
 Without water or mountains 4.39
 Land form $y = 1.63x + 0.66, R^2 = 0.93$

Quarries

Overall mean 4.95.
 Range 3.85 to 5.90, range 2.05.

Roads

Overall mean 6.85.
 Range 6.19 to 7.39, range 1.20.
 High rating due to mountainous terrain.

Land cover

Covered 117 scenes with vegetation.

	Minimal	Moderate	Maximum
Mean	6.12	6.49	5.70
Without pines	6.12	6.51	5.90

Tree spacing	Mean	Without pines
Isolated	5.83	5.83
Scattered	6.35	6.35
Scat-dense	6.58	6.58
Dense	5.87	6.00
Mean	6.16	6.20

Land form

Height $y = 0.33x + 5.21, R^2 = 0.18$
 Steepness $y = 0.30x + 5.37, R^2 = 0.13$

Positive influences on ratings of landscape types

Landscape type	Positive influence
Rockfaces	Moderate land cover Land form
Mountains	Diversity Naturalness
High fells	Steepness of slope Diversity Naturalness
Low fells with mountains	Moderate land cover
Low fells	Diversity Moderate land cover Diversity
Valleys without lakes	Moderate land cover Land form

Valleys with lakes	Naturalness Water area
Plains	Naturalness Land cover Diversity
Coast Streams	Naturalness Water area Size of stream

Comparison scenes

Duplicate scenes were rated with and without the feature and the ratings compared.

Colour

The colour provided by the flowers enhanced ratings by an average of 0.64 or by more than 10% but as much as 16%.

People

The absence of people enhanced the rating by 0.41 or nearly 6%.

Powerlines

Reduce ratings by 1.47 or 45%. Range 34% to 62%.

Scene	With poles	Without poles	Diff.	%
Mean	3.27	4.75	1.47	45.00

Road

With road	Without road	Difference	%
6.19	6.07	-0.12	-1.94

Stone walls

	With walls	Without walls	Diff.	%
Mean	5.41	5.22	0.19	3.51
W/o 6/8	5.55	5.12	0.43	7.75

Seasonal change

	Snow	Summer	Diff.	%
Mean w/o #145	7.50	7.31	0.19	2.53
Mean w/o #15/16	7.49	7.04	0.45	5.95

Sheep

Scenes	With sheep	Without sheep	Diff.	%
Mean	5.34	4.83	0.51	9.55

Trees

Scene	With trees	Without trees	Diff.	%
Mean	5.94	6.11	-0.16	-2.73
Mean w/o 96/94	5.53	5.76	0.23	4.16

Water

Scenes	With water	Without water	Diff.	%
Mean	7.11	6.41	0.70	9.85

Summary

