



# Update of the Erosion Susceptibility Classification (ESC) for the proposed National Environmental Standard for Plantation Forestry - revision of the ESC

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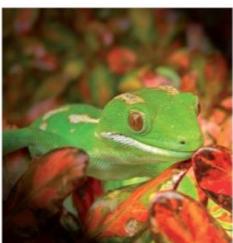
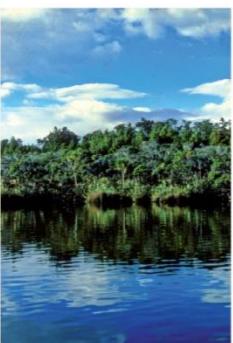
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# **Update of the Erosion Susceptibility Classification (ESC) for the proposed National Environmental Standard for Plantation Forestry – revision of the ESC**

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# **Summary**

## **Project and Client**

- The Ministry for Primary Industries (MPI) is leading a process to deliver a National Environmental Standard (NES) for Plantation Forestry. An Erosion Susceptibility Classification (ESC) is a critical input into the proposed NES as it underpins the level of control for different plantation forestry activities. The existing ESC has misclassification errors and MPI engaged Landcare Research to reassess the ESC, and identify and reclassify misclassified land.

## **Objectives**

- Identify LUC units in the High and Very High ESC classes that are misclassified or conservatively classified.
- Update the ESC.

## **Methods**

- Data on Potential Erosion Severity were compiled from Extended Legends and Land Use Capability Bulletins and compared with maximum mapped mass movement erosion for each unique LUC unit.
- The spatial distribution and erosion patterns were examined for each LUC unit in the New Zealand Land Resource Inventory.
- The effect of the major factors influencing erosion susceptibility (including the relative susceptibility of different rock types, slope steepness and rainfall) was considered in assigning the ESC class for LUC units.
- The consistency of ESC class assignment of correlated LUC units, and the relative ESC rating between related groups (suites) of LUC units, was checked.
- Proposed changes to ESC class were discussed with regional council and forestry industry staff.

## **Results**

- The ESC class has been changed for approximately 16% of LUC units and in most cases the revision has resulted in a lower ESC class (e.g. from High to Moderate).
- The area classed as High has decreased by 635 000 ha and the area classed as Very High by 1 027 000 ha, while the area in the Low and Moderate classes has increased by 1,684,000 ha. Changes to the High and Very High classes were mostly in Canterbury and Otago with significant changes also in Hawkes Bay and Northland.
- In the current plantation forest estate the area classed as High has decreased by 142 000 ha and the area classed as Very High by 35 000 ha with most change in Northland, Tasman and Waikato.

- The major changes relate to
  - LUC units in the South Island where only a single erosion severity was recorded for multiple erosion types and mass movement was a subdominant type,
  - reassessing the relative erosion susceptibility of different rock types, in particular assigning Tertiary-age soft rocks a higher ESC class than more indurated and typically older rocks (such as greywacke). The ESC rating for many greywacke LUC units has decreased.
- In the South Island the most erosion-prone terrain (with the exception of areas under very high rainfall) is on weathered Separation Point Granite (part LUC unit 7e9) and loess with extensive tunnel gullying (LUC unit 7e14) but these were considered to be less susceptible to erosion (High ESC class) than either highly landslide-prone terrain on mudstone and other soft sedimentary rocks, or extensive earthflow and gully erosion terrain on crushed argillite in the North Island (both Very High ESC class).
- Where possible a one ESC class difference was maintained between related Class 6, 7, 8 units.
- All sand dune LUC units were classed as Low with the exception of those on active foredunes which are classed as Very High.
- Class 8 LUC units were evaluated using the same methodology as for Class 6 and 7, rather than assigning all Class 8e land to the Very High ESC class.

## **Conclusions**

- Revision of the ESC has resulted in changes of ESC class to approximately 16% of LUC units with the area classed as High reduced by 635 000 ha and the area of Very High by 1 027 000 ha, dominated by changes made in Canterbury and Otago.
- The revision has focused on (i) comparing maximum mapped mass movement erosion type and severity with the potential erosion severity listed in regional LUC bulletins, (ii) considering the effect of rock type, slope steepness and rainfall on erosion susceptibility, (iii) the correlation of LUC units between different legends, and (iv) the relative ESC rating between related groups (suites) of LUC units.
- There remain a number of difficulties with applying the ESC based on potential erosion including the subjectivity of the classification, the poor definition of the concept and method of assessment of potential erosion, and the broad definition of some LUC units.
- The revised classification is considered an improvement on the original classification within the constraints of using potential erosion as the metric for erosion susceptibility.

## 1 Introduction

The Ministry for Primary Industries (MPI) is leading a process to deliver greater national consistency in the management of plantation forestry under the Resource Management Act (RMA) by implementing a National Environmental Standard (NES) for Plantation Forestry (hereafter simply referred to as the NES). The Erosion Susceptibility Classification (ESC) developed by Bloomberg et al. (2011), based on Land Use Capability (LUC) unit mapping, is a critical input into the proposed NES as it underpins the level of control for different plantation forestry activities. The ESC has limitations related to scale of mapping and misclassification of some land (Robson 2013; Basher et al. 2014) that will result in ongoing changes to the ESC once the NES is implemented. MPI engaged Landcare Research to refine the ESC for misclassified land and to establish a process by which changes to the ESC might be managed once the NES is implemented. The work requested includes three components:

1. Design a process by which a party can apply to have ESC units/polygons refined or reassessed, new LUC units created and where appropriate officially reclassified,
2. Reclassify those ESC units/polygons that were clearly misclassified as High or Very High under the current ESC (Bloomberg et al. 2011),
3. Apply a ‘graded level of severity’ classification to the High and Very High classes under the revised ESC.

This report describes work completed for the second component.

## 2 Background

The ESC was developed using ‘Potential Erosion Severity’ (PES) data for mass movement (including gully and tunnel gully erosion)<sup>1</sup> published in regional LUC bulletins and extended legends (NWASCO 1975–79, 1979; NWASCA 1986a, b) that were the basis of the New Zealand Land Resource Inventory (NZLRI). The published PES ratings for each LUC unit in classes 6, 7, 8s, 8w and 8c were used to classify land into four categories of erosion susceptibility: Low, Moderate, High, and Very High (Table 1). All LUC Class 1 to 5 land was assigned to ESC class Low, while all Class 8e land was assigned to ESC class Very High.

**Table 1:** Relationship between ESC class and potential erosion severity for mass movement erosion (Bloomberg et al. 2011)

Potential erosion severity	ESC class
0 = negligible	1 = Low
1 = slight	1 = Low
2 = moderate	2 = Moderate
3 = severe	3 = High
4 = very severe	4 = Very High
5 = extreme	4 = Very High

<sup>1</sup> Hereafter simply referred to as mass movement erosion

In the source documents potential erosion was listed in the North Island and 2nd edition mapping in Marlborough for each mapped LUC unit in terms of both the type and severity of erosion, but in the remainder of the South Island a single severity category was listed for multiple erosion types. Where potential erosion severity was listed for each erosion type it took the form ‘severe earthflow, moderate gully, slight sheet’ (3Ef 2G 1Sh), whereas in the South Island mapping it was listed in the form ‘severe earthflow, gully and sheet’ (3Ef G Sh). In developing the ESC, Bloomberg et al. (2011) determined the highest severity for any form of mass movement erosion for each LUC unit. This approach could be simply applied in the North Island where each erosion type is given a severity, but is problematic in the South Island mapping where only an overall erosion severity is given for multiple erosion types. In the latter case an LUC unit mapped as, for example, severe sheet, soil slip, gully (3ShSsG) was effectively classified as severe (3) soil slip even though the inventory would suggest:

- The severity (3) was an overall assessment of all three erosion types
- The severity of any individual type is presumably <3
- The dominant erosion was sheet erosion not mass movement or gully erosion.

This approach was considered to classify ESC ‘conservatively’. Similarly, many LUC units were listed in the source documents with a range of erosion severity – see Table 2 for some examples. In most cases the highest severity ranking was used to assign ESC class (e.g. 2-3Ss would be classed as High ESC).

**Table 2:** Examples of LUC units listed with a range of potential erosion severity and their ESC class (after Bloomberg et al. 2011)

Legend <sup>#</sup>	LUC unit	Potential erosion	ESC class
00	7e5	2-4Ef Su Ss	High
01	6e11	2-3Ef, 2-3Es, 2G, 2Ss, 2Sh	High
01	7e2	3-4Ef, 3-4G, 2Es, 2Ss, 2Sh	Very High
02	6e14	2-3Ef, 2-3Ss, 2Sh, 2G	High
02	7e9	3-4Ss, 3Sh, 3Sc, 2G	Very High
04	6e17	2-3G, 2Sh, 2Ss, 2Sb	High
07	6e15	2-3G, 2Sh	High
07	7e3	3-4Ss, 2Sh, 1G, 1T	Very High
10	6e26	2-3G, 2Sb, 2Sh	High
11	6e7	2-3Sh Ss	High
11	7e15	2-3Sh W Ss	High

<sup>#</sup> For key to legends see Lynn et al. (2009)

All Class 8e land was automatically assigned to ESC class Very High without consideration of potential erosion type or severity. As a result, some Class 8 land with very low susceptibility to mass movement erosion has been assigned to ESC class Very High. In addition, many LUC polygons are mapped as compound units (e.g. 4e6+6e20) and in these cases the maximum potential erosion severity was taken as the maximum severity for the

LUC unit with the higher potential erosion severity (in the example above, this would be the 6e20 LUC unit even though the 4e6 LUC unit would be areally dominant).

As a result of these issues, and with the improved understanding of erosion processes that has occurred since the NZLRI mapping was completed, it is considered that the ESC derived by Bloomberg et al. (2011) has misclassified some LUC units. MPI has sought to re-evaluate the ESC and identify those LUC units in the High and Very High ESC classes that are misclassified.

### **3 Objectives**

Identify LUC units in the High and Very High classes that are misclassified or conservatively classified and update the ESC.

### **4 Methods**

- The procedure followed for reconsidering the ESC class of LUC units involved re-examining the potential erosion data in the regional LUC extended legends and bulletins, compiling the mapped present erosion data in the NZLRI, considering the correlation of LUC units between regions, and also considering the ESC class of groups of related LUC units (suites). The following factors were taken into consideration when reviewing the ESC class of LUC units:
- The maximum mapped mass movement erosion (including gully and tunnel gully) for each unique LUC unit was compiled by querying the NZLRI.
- The potential mass movement erosion as listed in extended legends, and bulletins where available, was compiled. More reliance was placed on the bulletins because they were compiled post-mapping and better represent both what was observed during regional mapping and the interpretation of potential erosion that resulted from the mapping.
- The location of each LUC unit was plotted in GIS to observe the spatial distribution of polygons mapped within each LUC unit, and sometimes related LUC units.
- Where there was a difference between maximum mapped and assessed potential erosion, the spatial distribution of the LUC unit was examined and Google Earth was scanned for evidence of present and past erosion. The description of the LUC unit in the bulletin/extended legend was also taken into account.
- For large-scale mass movement (earthflow, slump) it was assumed that the observed extent and severity of erosion probably reflected the potential (since most of these features are ancient, long-lived landscape features).
- Consideration was given to the effect of the major factors influencing erosion susceptibility, including the relative susceptibility of different rock types (based on grouping the rock types of the NZLRI (Lynn et al. 2009) by relative rock strength), slope steepness and rainfall.
- Previous comments on the ESC made to Bloomberg et al. (2011), and subsequent feedback from regional councils as supplied by MPI and Trevor Freeman (Gisborne District Council) were taken into account.

- The correlation between regions was checked where LUC units were correlated between 2 or more legends. This followed Page (1985) and also utilised the draft National Extended Legend for LUC (Lynn in prep.). Correlation aimed to achieve consistency in ESC rating between regions, except where subtle regional differences may exist or correlations were only for part of an LUC unit.
- The relative ESC rating between related groups (suites) of LUC units (e.g. greywacke, different types of mudstone and sandstone, Taupo flow and water-sorted tephra) was examined to check for consistency.
- Those LUC units where the ESC rating was above or below the typical rating for the LUC class (e.g. most Class 6 was rated Moderate, but the least susceptible was rated as Low and the most susceptible as High, most Class 7 LUC units were rated as High, but least susceptible was rated as Low or Medium and most susceptible as Very High) were considered more closely to evaluate if this was justifiable.
- Where possible differences between related LUC units were reflected in the susceptibility ratings (i.e. if a Class 6 LUC unit was rated as Moderate then the related Class 7 unit, which would typically have higher mapped erosion severity, was rated as High). However because the original mapping had 6 classes of erosion severity and the ESC has only 4 classes then some regrouping has occurred with the result that some related Class 6 and 7 units have the same ESC class.
- Polygons mapped with dual LUC units were treated in the same way as Bloomberg et al. (2011). That is, the ESC was derived from the LUC unit with the highest potential erosion severity in order to be able to identify those areas where some part of the polygon has higher erosion severity than the polygon as a whole. While this induces some error in the mapping it is considered this is best resolved through mapping at more detailed scale.
- The ESC for Class 8 land was analysed in exactly the same way as for Class 6 and 7 rather than automatically assigning it to the Very High class. All Class 1 to 5 land was assigned to the Low ESC class following Bloomberg et al. (2011).
- Problematic LUC units and those units where changes to the Bloomberg et al. (2011) classification were suggested were discussed in face-to-face meetings with Greater Wellington Regional Council, Horizons Regional Council, Hawke's Bay Regional Council, Gisborne District Council, Waikato Regional Council, and Northland Regional Council. Some feedback was also received from the forestry industry (Hancock Forest Management, P F Olsen Ltd, Ernslaw One).

## 5 Results

The revised ESC for all LUC units is listed in Appendix 1 and its spatial implementation shown in Figure 1. The ESC class has been changed for approximately 16% of LUC units<sup>2</sup>, and in most cases the revision has resulted in a lower ESC class (e.g. from High to Moderate). The reasons for each change are listed for each LUC unit in Appendix 1. Over the whole country the area classed as High has decreased by 635 000 ha and the area classed as Very High by 1 027 000 ha (Table 3). The area in the Low and Moderate classes has increased by 1 684 000 ha. Changes to the High and Very High classes are dominated by changes made in Canterbury (area of Very High decreased by 384 000 ha) and Otago (area of High and Very High decreased by 352 000 and 166 000 ha respectively). Significant changes were also made in Hawke's Bay (the area of Very High reduced by 101 000 ha and the area of High increased by 120 000 ha) and Northland (the area of High decreased by 223 000 ha). In other regions the changes were rather smaller.

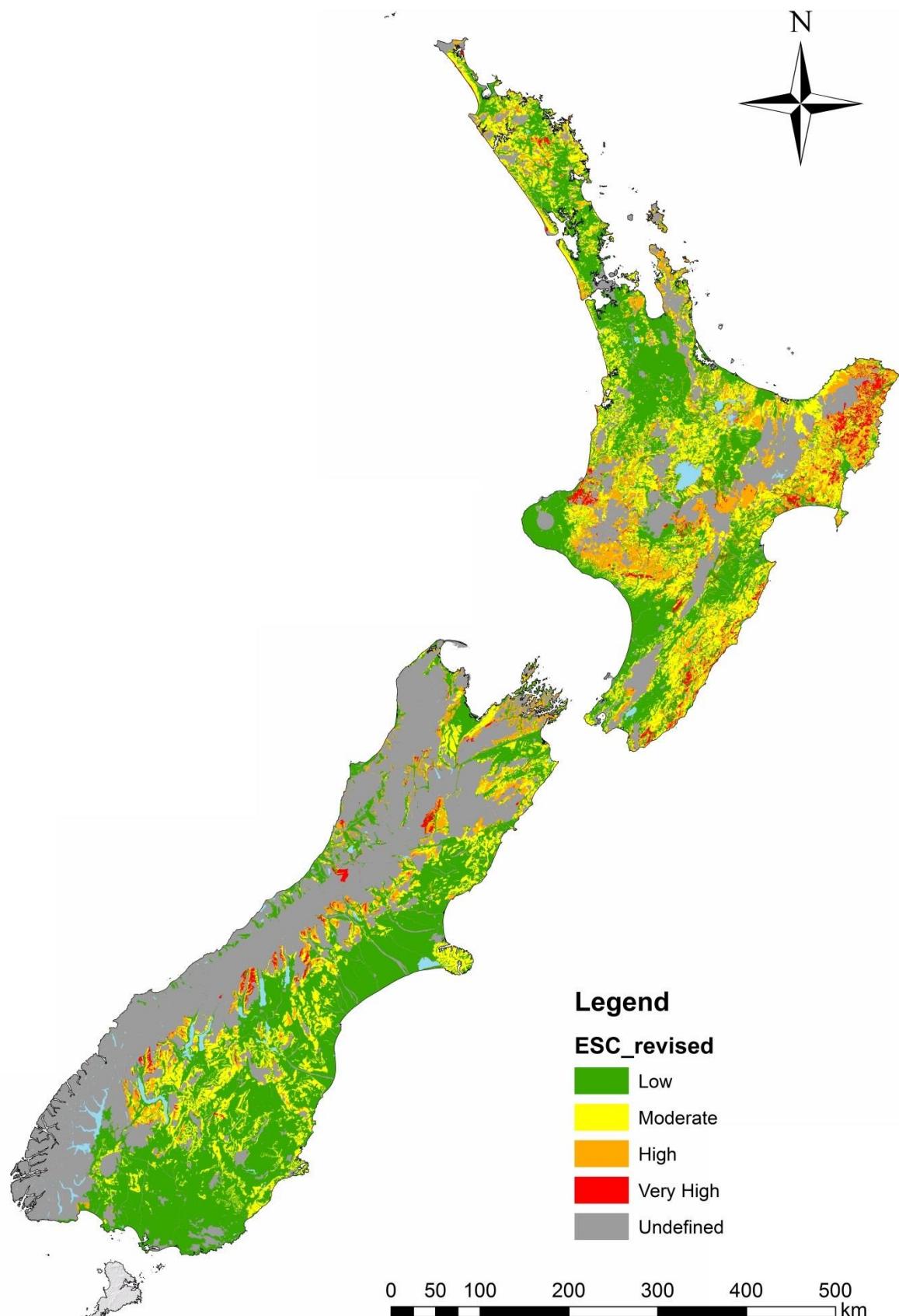
For the current plantation forest estate (as defined by LCDB4) the area classed as High has decreased by 142 000 ha and the area classed as Very High by 35 000 ha (Table 4) while the area in the Low and Moderate classes has increased by 179,000 ha. Changes to the High and Very High classes in the plantation forestry estate are dominated by changes made in Northland, Tasman and Waikato, with smaller changes also made in Bay of Plenty and Hawkes Bay.

The major changes relate to:

- Reassessing LUC units in the South Island where only a single erosion severity was recorded for multiple erosion types and mass movement was a subdominant type. This has resulted in changed ESC class for 20% of South Island LUC units.
- Reassessing the relative erosion susceptibility of different rock types, in particular comparing Tertiary-age soft rocks with older and more indurated greywacke.
- It was considered that the LUC units classed as Very High in the North Island (such as the highly landslide-prone terrain on mudstone and other soft sedimentary rocks, and the extensive earthflow and gully erosion terrain on crushed argillite) were generally more susceptible to erosion than any terrain in the South Island. The most erosion-prone South Island terrain (with the exception of areas under very high rainfall) is on weathered Separation Point Granite (part LUC unit 7e9) and loess with extensive tunnel gullyling (LUC unit 7e14) and these were used as the benchmark for the High class in the South Island.
- Where possible a one ESC class difference was maintained between related Class 6, 7, and 8 LUC units.

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<sup>2</sup> This percentage only applies to single LUC units, not polygons with dual LUC unit descriptions



**Figure 1:** Map of revised Erosion Susceptibility Classification.

**Table 3:** Area of the four ESC classes by region. Areas in brackets are from Bloomberg et al. (2011). Undefined areas include towns, quarries, and Department of Conservation Estate

	Area (000 ha)					
	Low	Moderate	High	Very High	Undefined*	Total
Auckland	275 (208)	99 (142)	37 (67)	3 (3)	88	502
Bay of Plenty	326 (303)	299 (229)	189 (224)	10 (68)	403	1228
Canterbury	2217 (1743)	722 (756)	287 (342)	72 (456)	1236	4534
Gisborne	95 (103)	266 (266)	211 (192)	186 (196)	84	841
Hawke's Bay	463 (504)	363 (341)	274 (154)	50 (151)	301	1451
Manawatu-Wanganui	737 (795)	623 (543)	387 (361)	64 (113)	473	2285
Marlborough	277 (114)	132 (191)	146 (162)	3 (91)	495	1053
Nelson	6 (3)	20 (10)	7 (18)	2 (3)	8	43
Northland	514 (450)	453 (266)	95 (318)	21 (50)	190	1273
Otago	1720 (1307)	670 (565)	119 (471)	27 (193)	663	3199
Southland	1183 (990)	120 (252)	32 (49)	3 (37)	1705	3043
Taranaki	312 (312)	98 (97)	130 (119)	37 (48)	152	729
Tasman	166 (109)	83 (87)	80 (114)	9 (27)	642	979
Waikato	1209 (1077)	562 (547)	210 (307)	12 (53)	465	2459
Wellington	296 (306)	211 (194)	102 (88)	37 (57)	169	816
West Coast	261 (261)	26 (26)	49 (37)	18 (30)	1981	2336
<b>Total</b>	<b>10056 (8596)</b>	<b>4715 (4513)</b>	<b>2388 (3023)</b>	<b>554 (1581)</b>	<b>9057</b>	<b>26771</b>

\* The undefined area was derived from the GIS data provided by Bloomberg et al. (2011).

**Table 4:** Area of the four ESC classes in the plantation forest estate (derived from LCDB4) by region. Areas in brackets are from Bloomberg et al. (2011)

	Area (000 ha)				
	Low	Moderate	High	Very High	Total
Auckland	19 (8)	26 (35)	6 (9)	0.7 (0.8)	52
Bay of Plenty	120 (106)	97 (89)	56 (73)	1 (6)	279
Canterbury	96 (61)	27 (52)	2 (9)	0.3 (4)	129
Gisborne	5 (5)	52 (52)	48 (43)	66 (70)	170
Hawke's Bay	40 (45)	73 (74)	35 (20)	10 (19)	159
Manawatu-Wanganui	57 (62)	50 (43)	32 (38)	10 (6)	150
Marlborough	27 (6)	12 (25)	38 (43)	0.1 (4)	82
Nelson	2 (0.3)	7 (3)	3 (8)	0 (0.1)	11
Northland	31 (24)	125 (73)	20 (74)	7 (12)	185
Otago	103 (62)	40 (77)	0.2 (4)	0 (0.6)	145
Southland	74 (56)	17 (35)	3 (3)	0 (0.6)	95
Taranaki	7 (7)	10 (10)	11 (11)	0.7 (1)	29
Tasman	31 (8)	44 (29)	26 (62)	1 (4)	103
Waikato	124 (108)	134 (113)	49 (84)	2 (5)	312
Wellington	23 (24)	26 (26)	18 (18)	9 (9)	77
West Coast	24 (24)	7 (7)	10 (10)	0 (0.1)	42
<b>Total</b>	<b>782 (604)</b>	<b>738 (741)</b>	<b>365 (506)</b>	<b>108 (143)</b>	<b>2020</b>

\* The undefined area was derived from the GIS data provided by Bloomberg et al. (2011).

It is considered that greywacke (along with other strongly indurated lithologies) are less susceptible to erosion than soft rocks and ESC class should reflect this. As a consequence, the rating for many greywacke units decreased. Now most Class 6 greywacke LUC units are rated Low, most Class 7 greywacke LUC units are rated Moderate and most Class 8 greywacke LUC units are rated High (see Table 5). The exceptions to this general pattern are where the rainfall is very high and/or slopes are very steep (e.g. legend 00, South Island, LUC units 8e7, 8e11), or where the greywacke is particularly crushed and shattered (such as legend 6, Gisborne-East Coast – this area is also considered to have a greater argillite component in the greywacke that makes it more susceptible to erosion). In addition, deeply weathered greywacke LUC units were considered to be more susceptible to erosion than their unweathered correlative and generally had higher ESC class. This applied in Northland, Waikato, and parts of Coromandel.

**Table 5:** ESC class for steepland greywacke LUC units

<b>Legend</b>	<b>ESC class</b>			
	<b>Low</b>	<b>Moderate</b>	<b>High</b>	<b>Very High</b>
00	6e11, 6e14, 6e22, 6e29	7e2, 7e3, 7e12, 7e16, 7e21, 7e23, 7e24, 7e26	8e2, 8e4, 8e8, 8e9	8e7*, 8e11*
01		6e9#, 6e10#, 6e17#	7e5#, 7e6#, part 8e2, part 8e3	
02	6e5, 6e6	6e14#, 7e2	6e17#, 7e8#, 7e9#, 8e2, 8e3	
03		part 6e7#, part 6e8#, part 6e10#	7e1#, part 7e4#, 7e8#, part 8e2	part 8e3*, part 8e4*
04			8e3, 8e7	8e4*
05		7e2	8e1, 8e2	
06		6e23, 6e24	7e11	8e4, 8e7, 8e8
07		part 7e7	8e5, 8e9	8e6*
08	6e11	7e5, 7e10	8e5, 8e7, 8e8	8e6#
09	6e6, 6e7, 6e8, 6e9	6e10*, 7e1, 7e2, 7e4	7e5*, 8e2, 8e3, 8e4	8e5
10	6e16	7e10	8e4, 8e5, 8e8	8e7*, 8e9*
11	6e8, 6e12, 6e17, 6e19	7e7, 7e14, 7e15, 7e20, 7e23, 7e24, 7e25	8e5, 8e6, 8e7, 8e8, 8e9, 8e11, 8e12, 8e13	

\* high rainfall units, # deeply weathered or crushed greywacke

The reclassification of the ESC in part reflects the relative susceptibility of different rock types, particularly the difference between young weakly to moderately indurated soft sedimentary rock types and older moderately to strongly indurated rocks (such as greywacke and schist). Table 6 shows the classification of LUC units underlain by mudstone. For this rock type ESC class is typically one class higher than for greywacke (i.e. Class 6 is mostly Moderate, Class 7 is mostly High and where the mudstone is crushed and shattered then Class 7 LUC units are Very High). A similar approach was applied to other soft rock LUC units. The rock types of the NZLRI (Lynn et al. 2009) were grouped by relative rock strength, considered to be one of the main factors influencing erosion susceptibility (Table 7). This grouping was used to help maintain consistency between the ESC of LUC units underlain by different rock types.

**Table 6:** Mudstone LUC units

<b>Legend</b>	<b>ESC class</b>			
	<b>Low</b>	<b>Moderate</b>	<b>High</b>	<b>Very High</b>
00				
01	part 6e1	part 6e8	part 7e4	
02		part 6e19		part 7e4
06		6e2, 6e9, 6e12	7e2, 7e3, 7e4, 7e6, 7e7, 7e9	7e1, 7e21, 7e23, part 8e3
07		6e3, 6e4, 6e10	7e1, 7e2, 7e6, part 8e3	7e10, 7e11
08		6e2, 6e3, 6e7, 6e8, 6e10	7e1, 7e2	part 7e12, 7e8, part 8e1
09				
10		6e3, 6e4, 6e5	7e1, 7e2, 7e7	part 7e14

**Table 7:** Relative rock strength of different unweathered rock types

<b>Rock strength</b>	<b>Rock type<sup>1</sup></b>
Extremely weak	Ng, Rm, Ta, Sc, Lp, Kt, Tp, Ft*, Vu*, Pt, Wb, Us*, Uf*
Very weak	Mo, Ft*, La*, Vu*, Af, Gr*, Us*, Uf*
Weak	Mf, Me, Lo, Mx, Ac
Strong	Tb, Vb, Cl, Gl, Mm, Mb, Sm, Sb, Cw, Li*
Very strong	Vo, Ar, Si, Cg, Gw, Li*, Sx, Sy
Extremely strong	In, Gn, Um, Gs, Ma

<sup>1</sup>Symbols follow Lynn et al. (2009); \*These rock types exhibit a range of rock strength

Other changes were made where

- LUC units on soft sedimentary rocks, volcanic rocks or loess that were mapped on fairly gentle slopes (D and E) and where the mapped severity of mass movement was very low had their ESC class adjusted down to reflect the lower slope (e.g. legend 01 6e1, legend 02 6e3; legend 3 6e3)
- LUC units characterised by earthflow erosion where the ESC class was higher than the potential erosion severity or mapped severity, and it was considered that the mapped severity represented the potential, had their ESC class adjusted down (e.g. legend 01 6e7, 6e12; legend 6 7e6)

Classification of the sand dune LUC units followed Bloomberg et al. (2011). This terrain is not susceptible to mass movement erosion but it was treated as a special case by Bloomberg et al. (2011) since some of it is highly prone to wind erosion. All sand dune LUC units were

classed as Low with the exception of those on active foredunes, which are classed as Very High.

There remain a number of difficulties with applying the ESC based on potential erosion:

- The classification remains somewhat subjective. It is partly based on the NZLRI data (potential erosion and maximum mapped mass movement erosion), but also partly based on interpretation of the influence of rock type and weathering status, rainfall and topography on erosion susceptibility. These influences cannot be evaluated independently using the concept of potential erosion, nor can the role of vegetation cover, and changes of cover, be objectively evaluated.
- Part of the difficulty with classifying some LUC units was their broad definition. For example, legend 00 LUC unit 7e9 includes areas of highly erodible Separation Point Granite, but it also includes areas of weathered schist and greywacke. The ESC for this LUC unit applies to the unit as a whole, even though some parts of it are more susceptible to erosion than others.
- For some areas of the country it was particularly difficult to classify ESC class, and maintain consistency with other parts of the country, because of their rock types, climate characteristics, and vegetation cover. Chief among those was the Coromandel (legend 03) with its highly weathered and hydrothermally altered rocks, and perceived high frequency of rain storms that trigger mass movement. Similarly, a number of LUC units in the Gisborne-East Coast area (legend 6), correlated with LUC units elsewhere, were considered more susceptible to erosion because the tectonic regime has resulted in more crushed and shattered rocks in that area. In some regions there were LUC units that essentially occurred only under forest vegetation and therefore it was difficult to assess potential erosion severity because there were no areas under grassland to provide a clear baseline for their erosion response under grassland.
- Each erosion susceptibility class contains quite a wide range of terrain as a consequence of using data that originally had 6 classes for erosion severity and collapsing the data into 4 classes of erosion susceptibility. For example, in legend 00 the High ESC class includes terrain ranging from highly erodible, weathered granite (LUC unit 7e9) and loess (LUC unit 7e14) through to less erodible soft rock hill country (e.g. LUC unit 7e7) but it was considered the latter was better grouped with LUC units in the High class rather than the Moderate class. In revising the ESC subjective decisions had to be made regarding the “best-fit” groupings of ESC class. The comments column in Appendix 1 provides the rationale for these decisions.

## **6 Conclusions**

Revision of the ESC has resulted in changes of ESC class to approximately 16% of LUC units with the area classed as High reduced by 648,000 ha and the area of Very High by 1 027 000 ha, dominated by changes made in Canterbury and Otago. The revision has focused on:

- i. comparing maximum mapped mass movement erosion type and severity with the potential erosion severity listed in regional LUC bulletins,
- ii. considering the effect of rock type, slope steepness, and rainfall on erosion susceptibility,
- iii. correlating LUC units between different legends, and
- iv. correlating the relative ESC rating between related groups (suites) of LUC units.

There remain a number of difficulties with applying the ESC based on potential erosion including the subjectivity of the classification, the poor definition of the concept and method of assessment of potential erosion, and the broad definition of some LUC units. However, the revised classification is considered an improvement on the original classification within the constraints of using potential erosion as the metric for erosion susceptibility.

## **7 Acknowledgements**

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## Appendix 1 – List of mapped LUC units and their ESC class

Notes:

All LUC units (including those with dual LUC description) for which ESC class is changed from Bloomberg et al. (2011) are identified by red text.

<sup>1</sup> Legend numbers as listed in the NZLRI. For a key see Lynn et al. (2009).

<sup>2</sup> The comments provide an explanation why ESC class has been changed from that listed in Bloomberg et al. (2011). Comments are only provided for individual LUC units. PES – potential erosion severity. Abbreviations for rock type, slope and erosion follow Lynn et al. (2009).

<sup>3</sup> Maximum mapped mass movement erosion

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	1c 1	Low	Low		0	0	
00	1c 2	Low	Low		0	0	
00	1s 2+2s 2	Low	Low		0	0	
00	1w 1	Low	Low		0	0	
00	1w 1+2s 2	Low	Low				
00	1w 1+2s 3	Low	Low				
00	1w 1+2w 1	Low	Low				
00	1w 1+3s 5	Low	Low				
00	1w 2	Low	Low		0	0	
00	2c 1	Low	Low		0-1W when cultivated	0-1W when cultivated	
00	2c 2	Low	Low		0	0-1Sb	
00	2c 2+3s 2	Low	Low				
00	2c 2+3s 5	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	2c 2+3s 7	Low	Low			
00	2c 2+4s 1	Low	Low			
00	2e 1	Low	Low		1W when cultivated	1W when cultivated
00	2e 1+2w 1	Low	Low			
00	2e 1+3e 8	Low	Low			
00	2e 1+3s 6	Low	Low			
00	2e 2	Low	Low		1W when cultivated	1W when cultivated
00	2e 2+3e 4	Low	Low			
00	2s 1	Low	Low		0	0-1Sb W
00	2s 1+3s 2	Low	Low			
00	2s 1+3s 3	Low	Low			
00	2s 1+3w 3	Low	Low			
00	2s 2	Low	Low		0-1W when cultivated	0-1W when cultivated
00	2s 2+3s 2	Low	Low			
00	2s 2+3s 5	Low	Low			
00	2s 2+3s 9	Low	Low			
00	2s 2+4e 1	Low	Low		1Ss	
00	2s 2+4s 6	Low	Low			
00	2s 3	Low	Low		1Sh Ss	0-1W when cultivated
00	2s 3+1s 1	Low	Low			0-1W when cultivated

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	2s 3+2e 1	Low	Low				
00	2s 3+3e 8	Low	Low				
00	2s 3+3e12	Low	Low				
00	2s 3+3s12	Low	Low				
00	2s 3+4s 7	Low	Low				
00	2s 3+6e 9	Moderate	Moderate				
00	2s 3+7e 7	High	High		2Sh G		
00	2w 1	Low	Low		1Es	0	0
00	2w 1+3s 5	Low	Low				
00	2w 1+3s 9	Low	Low				
00	2w 1+4s 6	Low	Low				
00	2w 2	Low	Low		0-1Sb	0-1Sb	
00	2w 2+3w 3	Low	Low				
00	2w 2+3w 4	Low	Low				
00	3c 1	Low	Low		0-1Sb [1W when cultivated]	0-1Sb [1W when cultivated]	
00	3c 1+4s 1	Low	Low				
00	3c 1+4s 9	Low	Low				
00	3c 1+5w 2	Low	Low				
00	3c 1+7e11	High	Moderate		1Ss		
00	3c 2	Low	Low		1Ss	0-1Sb	0-1Sb

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3c 2+3w 3	Low	Low			
00	3c 2+4e 3	Low	Low			
00	3c 2+4s 1	Low	Low			
00	3c 2+4s 2	Low	Low			
00	3c 2+4s 3	Low	Low			
00	3c 2+4w 1	Low	Low			
00	3c 3	Low	Low		1-2W when cultivated	1-2W when cultivated
00	3c 3+3s 6	Low	Low			
00	3c 3+3w 1	Low	Low			
00	3c 3+4s 9	Low	Low			
00	3c 4	Low	Low		1Sh Ss	1W when cultivated
00	3c 4+4e 3	Low	Low			1Sh, 1W when cultivated
00	3c 4+4e13	Low	Low		1Ss Sh	
00	3c 4+5s 1	Low	Low			
00	3c 4+6e10	Low	Low			
00	3c 4+6w 3	Low	Low			
00	3e 1	Low	Low		1Sh R when cultivated	1Sh R when cultivated
00	3e 1+6e 1	Low	Low		1Su	
00	3e 2	Low	Low		1Sh R when cultivated	1Sh R when cultivated
00	3e 2+4e 1	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3e 2+4e 4	Low	Low	1Sh Ss		
00	3e 2+6e 1	Low	Low	1Ss		
00	3e 2+6e 2	Moderate	Low			
00	3e 3	Low	Low		1Sh R when cultivated	1Sh R when cultivated
00	3e 3+4e 2	Low	Low			
00	3e 4	Low	Low	1Sh Ss	1-2Sh W R when cultivated	1-2Sh W R when cultivated
00	3e 4+4e 3	Low	Low			
00	3e 4+4e 4	Low	Low			
00	3e 4+4s 3	Low	Low			
00	3e 4+6e 8	Moderate	Moderate			
00	3e 4+6e13	High	Moderate	1T Sh		
00	3e 4+6s 9	Low	Low			
00	3e 5	Low	Low		1W [2W when cultivated]	1W [2W when cultivated]
00	3e 5+4e14	Low	Low			
00	3e 6	Low	Low	1Ss	1Sh [2Sh R when cultivated]	1Sh Ss [2Sh R when cultivated]
00	3e 6+4e 5	Low	Low	1Ss Sh		
00	3e 7	Low	Low		1W [2W when cultivated]	1W [2W when cultivated]
00	3e 7+3w 3	Low	Low			
00	3e 7+4e 3	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3e 7+4e 7	Low	Low			
00	3e 7+4e17	Low	Low			
00	3e 7+4s 4	Low	Low			
00	3e 7+6w 3	Low	Low			
00	3e 8	Low	Low	1Es	1Sh W [2Sh R W when cultivated]	1Sh W [2Sh R W when cultivated]
00	3e 8+4e 4	Low	Low	1Ss Sh		
00	3e 8+6e 8	Moderate	Moderate	1Sh Es		
00	3e 8+6e 9	Moderate	Moderate			
00	3e 8+7e 7	High	High	2Sh Ss		
00	3e 9	Low	Low		1Ss [1-2Sh R when cultivated]	1Ss [1-2Sh R when cultivated]
00	3e 9+6e 3	Moderate	Moderate	1Ss		
00	3e 10	Low	Low	1Ss	1Sh R when cultivated	1Sh R when cultivated
00	3e10+4e 3	Low	Low	1Sh Ss		
00	3e10+5c 2	Low	Low	1Sh Ss		
00	3e10+6e 6	Moderate	Low			
00	3e10+6w 1	Low	Low			
00	3e 11	Low	Low		1W [2W when cultivated]	1W [2W when cultivated]
00	3e11+4e 9	Low	Low	1W Sh Ss		
00	3e11+4e15	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	3e11+4s 9	Low	Low				
00	3e 12	Low	Low		1Sh Ss	1Sh W [2Sh R W when cultivated]	1Sh W [2Sh R W when cultivated]
00	3e12+4e 3	Low	Low		1Ss		
00	3e12+4e 7	Low	Low				
00	3e12+5s 1	Low	Low				
00	3e12+6e15	Moderate	Moderate		1Ss		
00	3e12+6e16	Moderate	Low		2Ef Sh		
00	3e12+6e17	Moderate	Moderate				
00	3e12+6s 8	Low	Low				
00	3e12+7e 7	High	High		2Sh G		
00	3e12+8e 2	Very High	High		3G		
00	3e 13	Low	Low		1Sh W [2Sh R W when cultivated]	1Sh W [2Sh R W when cultivated]	
00	3e13+4e 9	Low	Low				
00	3e13+4s 9	Low	Low				
00	3e13+6e12	Moderate	Low		1Sh Ss		
00	3e13+6e19	Low	Low				
00	3e 14	Low	Low		1Ss	2Sh R W when cultivated	1Sh W [2Sh R W when cultivated]
00	3e14+4e 3	Low	Low		1Ss		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3e14+6e 7	Moderate	Moderate			
00	3e 15	Low	Low		1-2W 1Sh [2W 1Sh when cultivated]	1W Sh [2W 1Sh when cultivated]
00	3e15+4s12	Low	Low			
00	3e15+4w 3	Low	Low			
00	3e15+5w 2	Low	Low			
00	3e15+6e19	Low	Low			
00	3e15+6e28	Low	Low			
00	3e15+6s11	Low	Low			
00	3s 1	Low	Low		0-1 W when cultivated	0-1 W when cultivated
00	3s 2	Low	Low	1Sh Ss	1Sb D	1Sb D [1W when cultivated]
00	3s 2+2s 1	Low	Low			
00	3s 2+4s 1	Low	Low			
00	3s 3	Low	Low	2G D	1-2W when cultivated	1-2W when cultivated
00	3s 3+2e 2	Low	Low			
00	3s 3+2s 2	Low	Low			
00	3s 3+4e 5	Low	Low	1Ss		
00	3s 3+4s 3	Low	Low			
00	3s 3+8e 2	Very High	High		2Ss G Sh	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	3s 4	Low	Low		0-1Sb D [1W when cultivated]	0-1W [1W when cultivated]	
00	3s 4+3c 1	Low	Low				
00	3s 4+4s 6	Low	Low				
00	3s 4+4w 2	Low	Low				
00	3s 4+6s 7	Low	Low				
00	3s 4+6w 2	Low	Low				
00	3s 5	Low	Low		1W [1-2W when cultivated]	1W [1-2W when cultivated]	
00	3s 5+2s 2	Low	Low				
00	3s 5+2w 1	Low	Low				
00	3s 5+3e 5	Low	Low				
00	3s 5+4s 6	Low	Low				
00	3s 5+4s 7	Low	Low				
00	3s 5+4w 1	Low	Low				
00	3s 5+6e 8	Moderate	Moderate				
00	3s 6	Low	Low		1W [1-2W when cultivated]	1W [1-2W when cultivated]	
00	3s 6+3c 3	Low	Low				
00	3s 6+3e13	Low	Low				
00	3s 6+3w 1	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3s 6+4e 9	Low	Low		1W G	
00	3s 6+4s 6	Low	Low			
00	3s 6+4s 9	Low	Low			
00	3s 6+4s15	Low	Low			
00	3s 6+4w 2	Low	Low			
00	3s 6+6e19	Low	Low		1W Sh G	
00	3s 6+6s 7	Low	Low			
00	3s 6+6s 9	Low	Low			
00	3s 6+7s 9	Moderate	Low			
00	3s 7	Low	Low		1W G	1W [2W when cultivated] 1W [2W when cultivated]
00	3s 7+2c 2	Low	Low			
00	3s 7+4e 7	Low	Low		1Ss Sh	
00	3s 7+4s 1	Low	Low			
00	3s 7+4s 4	Low	Low			
00	3s 7+4s12	Low	Low			
00	3s 7+4w 3	Low	Low			
00	3s 7+5w 3	Low	Low			
00	3s 8	Low	Low		1-2Sb D	1-2Sb D
00	3s 8+4s 2	Low	Low			
00	3s 9	Low	Low		1Sb W [1-2W when cultivated]	1Sb W [1-2W when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3s 9+4s 6	Low	Low			
00	3s10	Low	Low		0-1Sb	0-1Sb
00	3s10+4s 2	Low	Low			
00	3s10+4s 5	Low	Low			
00	3s11	Low	Low		0-1W when cultivated	0-1W when cultivated
00	3s11+5s 6	Low	Low			
00	3s12	Low	Low		0	0-1W
00	3s12+2s 3	Low	Low			
00	3s12+3e 4	Low	Low			
00	3s12+4e 3	Low	Low			
00	3s12+4e 7	Low	Low			
00	3w 1	Low	Low		0	0-1Sb
00	3w 1+2e 1	Low	Low			
00	3w 1+2w 1	Low	Low			
00	3w 1+4s 6	Low	Low			
00	3w 1+4s 9	Low	Low			
00	3w 1+6s 8	Low	Low			
00	3w 1+6w 1	Low	Low			
00	3w 2	Low	Low		0-2W when cultivated	0-2W when cultivated
00	3w 2+2w 1	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	3w 3	Low	Low		0	0
00	3w 3+2w 2	Low	Low			
00	3w 3+4s 1	Low	Low			
00	3w 3+4s 4	Low	Low			
00	3w 3+4s12	Low	Low			
00	3w 3+4w 3	Low	Low			
00	3w 3+7w 1	Low	Low			
00	3w 4	Low	Low		0	0
00	3w 4+7w 1	Low	Low			
00	4c 1	Low	Low		0-1Sh W [1-2Sh W when cultivated]	0-1Sh W [1-2Sh W when cultivated]
00	4c 1+6s 4	Low	Low			
00	4c 1+6s12	Low	Low			
00	4c 2	Low	Low		1Ss	1Sh when cultivated
00	4c 2+6e10	Low	Low			1W Sh when cultivated
00	4c 2+6e14	Moderate	Low			
00	4c 2+6e23	Low	Low			
00	4c 2+6s 9	Low	Low			
00	4c 3	Low	Low		1-2Sb	1-2Sb
00	4c 3+4s 5	Low	Low			
00	4c 3+6e25	Moderate	Moderate			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4e 1	Low	Low		1Ss	1Sh [1-2Sh R W when cultivated]	1Sh Ss [1-2Sh R W when cultivated]
00	4e 1+5c 3	Low	Low				
00	4e 1+6e 1	Low	Low				
00	4e 1+6e 2	Moderate	Low		1Ss		
00	4e 1+6e 5	Moderate	Moderate		1Ss		
00	4e 2	Low	Low		1Ss	1Sh [2Sh R when cultivated]	1Sh Ss [2Sh R when cultivated]
00	4e 2+3e 3	Low	Low				
00	4e 2+5c 3	Low	Low				
00	4e 2+6e 5	Moderate	Moderate				
00	4e 2+6e 8	Moderate	Moderate				
00	4e 2+6s 2	Low	Low				
00	4e 3	Low	Low		1Ss, 1T	1Sh [1-2Sh R when cultivated]	1Sh Ss [1-2Sh R when cultivated]
00	4e 3+3e12	Low	Low		1Ss Sh		
00	4e 3+4s13	Low	Low				
00	4e 3+5c 2	Low	Low				
00	4e 3+6e 5	Moderate	Moderate		1Sh Ef		
00	4e 3+6e 6	Moderate	Low				
00	4e 3+6e 7	Moderate	Moderate				

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4e 3+6e15	Moderate	Moderate		1Ss		
00	4e 3+6e16	Moderate	Low				
00	4e 3+6e17	Moderate	Moderate		1Ss		
00	4e 3+6e21	Moderate	Low		1Sh Ss		
00	4e 3+6e28	Low	Low		1Ss Sh		
00	4e 3+7s 4	Low	Low				
00	4e 4	Low	Low		2Sh Ss	1-2Sh T [2-3Sh W R when cultivated]	1-2Sh T [2-3Sh W R when cultivated]
00	4e 4+3e 8	Low	Low		1Sh W Ss		
00	4e 4+4e 8	Low	Low		1Sh Su		
00	4e 4+6e 2	Moderate	Low		1Ss G		
00	4e 4+6e 8	Moderate	Moderate		2Sh Es		
00	4e 4+6e 9	Moderate	Moderate		1Sh Ss		
00	4e 4+6e10	Low	Low				
00	4e 4+6e11	Moderate	Low		1Sh Ss		
00	4e 4+6e13	High	Moderate		1T, 1Ss		
00	4e 4+6e17	Moderate	Moderate		1Sh Ss Ef		
00	4e 4+6e18	Moderate	Moderate				
00	4e 4+7e 7	High	High		2Sh Ss		
00	4e 4+8e 2	Very High	High		2Sh G		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4e 5	Low	Low		1Ss	1-2Sh [2-3Sh R when cultivated]	1Sh Ss [2-3 Sh R when cultivated]
00	4e 5+6e16	Moderate	Low		1Ss		
00	4e 6	Low	Low		2Ss Sh	2Sh Ss [2-3Sh R when cultivated]	2Sh Ss [2-3Sh R when cultivated]
00	4e 6+6e11	Moderate	Low		1Es Sh		
00	4e 6+6e15	Moderate	Moderate		2Ss Sh		
00	4e 6+6e16	Moderate	Low		1Ss		
00	4e 6+7e 7	High	High		1Sh Sb Ss		
00	4e 7	Low	Low		1Ss	1Sh W [2-3Sh R W when cultivated]	1Sh W [2-3Sh R W when cultivated]
00	4e 7+3e 7	Low	Low				
00	4e 7+3e14	Low	Low				
00	4e 7+6e 6	Moderate	Low				
00	4e 7+6e 7	Moderate	Moderate				
00	4e 7+6e10	Low	Low				
00	4e 7+6e15	Moderate	Moderate		1Ss		
00	4e 7+6e16	Moderate	Low		2G Sh		
00	4e 7+6e22	Moderate	Low				
00	4e 7+7s 9	Moderate	Low				
00	4e 8	Low	Low		1-2W [2W when cultivated]	1-2W [2W when cultivated]	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4e 8+5w 2	Low	Low			
00	4e 9	Low	Low	2Sh G	1-2W Sh [2-3W Sh when cultivated]	1-2W Sh [2-3W Sh when cultivated]
00	4e 9+3e13	Low	Low			
00	4e 9+3s 6	Low	Low	1Sh W Su		
00	4e 9+6e12	Moderate	Low	1Sh Ss		
00	4e 9+6e13	High	Moderate			
00	4e 9+6e14	Moderate	Low	1Sh Ss		
00	4e 9+6e19	Low	Low	1Sh Ss		
00	4e 9+6e26	Low	Low			
00	4e 9+6s 7	Low	Low			
00	4e 9+6s 9	Low	Low			
00	4e 10	Low	Low	1Sh W [2Sh R W when cultivated]	1Sh W [2Sh R W when cultivated]	
00	4e10+5w 2	Low	Low			
00	4e10+5w 3	Low	Low			
00	4e10+6e19	Low	Low			
00	4e10+6e28	Low	Low			
00	4e10+6w 3	Low	Low			
00	4e10+7w 1	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4e 11	Low	Low		2W [2-3W when cultivated]	2W [2-3W when cultivated]	
00	4e11+6e19	Low	Low				
00	4e11+6s 7	Low	Low				
00	4e 12	Low	Low		1-2W [3W 1Sh when cultivated]	1-2W Sh [3W 2Sh when cultivated]	
00	4e12+6e19	Low	Low				
00	4e12+6e26	Low	Low				
00	4e12+6s 7	Low	Low				
00	4e 13	Low	Low		1Ss	1-2Sh W R when cultivated	1-2Sh W R when cultivated
00	4e13+3c 4	Low	Low				
00	4e13+4w 3	Low	Low				
00	4e13+6e 5	Moderate	Moderate				
00	4e13+6e 7	Moderate	Moderate		1Sh Ss		
00	4e13+6e10	Low	Low		1Ss		
00	4e13+6e23	Low	Low		1Ss Sh		
00	4e13+6e28	Low	Low				
00	4e 14	Low	Low		2W [2-3W when cultivated]	2W [2-3W when cultivated]	
00	4e 15	Low	Low		1Ss	2-3Sh R when cultivated	2-3Sh R when cultivated
00	4e15+6e15	Moderate	Moderate		1Ss Sh		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4e15+6e21	Moderate	Low			
00	4e 16	Low	Low	1Sh Ss	2W [2-3W when cultivated]	2W Sh [2-3W Sh when cultivated]
00	4e16+5s 5	Low	Low			
00	4e16+6c 3	Low	Low			
00	4e16+6e27	Low	Low			
00	4e16+6e29	Moderate	Low			
00	4e16+6s11	Low	Low			
00	4e16+6s12	Low	Low			
00	4e 17	Low	Low	1-2W [2-3W when cultivated]	1-2W [2-3W when cultivated]	
00	4e17+4w 3	Low	Low			
00	4e17+6e 5	Moderate	Moderate			
00	4e17+6s11	Low	Low			
00	4e17+6s12	Low	Low			
00	4e 18	Low	Low	2-3W when cultivated	2-3W when cultivated	
00	4e18+2s 2	Low	Low			
00	4s 1	Low	Low	0-1Sb	0-1W Sb	
00	4s 1+2s 1	Low	Low			
00	4s 1+3s 2	Low	Low			
00	4s 1+3w 3	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4s 1+4w 1	Low	Low				
00	4s 1+4w 3	Low	Low				
00	4s 1+5w 1	Low	Low				
00	4s 1+6s 1	Low	Low				
00	4s 1+6s 2	Low	Low				
00	4s 1+6w 2	Low	Low				
00	4s 1+6w 3	Low	Low				
00	4s 2	Low	Low		0-2Sb D	0-2Sb D	
00	4s 2+3s 8	Low	Low				
00	4s 2+4w 2	Low	Low				
00	4s 2+4w 4	Low	Low				
00	4s 2+6s 3	Low	Low				
00	4s 2+7w 2	Low	Low				
00	4s 3	Low	Low		2Sb G W	0-1Sb [1-2W when cultivated]	1-2Sb [1-2W when cultivated]
00	4s 3+2s 3	Low	Low				
00	4s 3+3s 3	Low	Low				
00	4s 3+6e16	Moderate	Low		1Ss		
00	4s 3+6s 4	Low	Low				
00	4s 4	Low	Low		1W [2W when cultivated]	1W [2W when cultivated]	
00	4s 4+3e 7	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4s 4+3s 7	Low	Low			
00	4s 4+3w 3	Low	Low			
00	4s 4+4w 3	Low	Low			
00	4s 4+6e16	Moderate	Low			
00	4s 4+6s12	Low	Low			
00	4s 5	Low	Low	1Ss	1Sb	1Sb
00	4s 5+6e25	Moderate	Moderate			
00	4s 5+6s 4	Low	Low			
00	4s 5+6s 6	Low	Low			
00	4s 5+7s 8	Low	Low			
00	4s 6	Low	Low		1W 0-1Sb [1-2W when cultivated]	1W Sb [1-2W when cultivated]
00	4s 6+3s 4	Low	Low			
00	4s 6+3s 6	Low	Low			
00	4s 6+4e 9	Low	Low			
00	4s 6+4w 2	Low	Low			
00	4s 6+6s 7	Low	Low			
00	4s 6+6s 8	Low	Low			
00	4s 6+7e 7	High	High		2Ss W	
00	4s 6+7s 9	Moderate	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4s 7	Low	Low		1-2W [2W when cultivated]	1W [2W when cultivated]
00	4s 7+3s 5	Low	Low			
00	4s 7+6s 8	Low	Low			
00	4s 8	Low	Low		0-1W when cultivated	0-1W when cultivated
00	4s 8+6s10	Low	Low			
00	4s 9	Low	Low	2W G Sh	1W [2W when cultivated]	1-2W [2W when cultivated]
00	4s 9+3c 3	Low	Low			
00	4s 9+3e11	Low	Low			
00	4s 9+3e13	Low	Low			
00	4s 9+3s 4	Low	Low			
00	4s 9+3s 6	Low	Low			
00	4s 9+4c 2	Low	Low			
00	4s 9+4e 9	Low	Low			
00	4s 9+4s15	Low	Low			
00	4s 9+5s 3	Low	Low			
00	4s 9+6c 3	Low	Low			
00	4s 9+6e 9	Moderate	Moderate			
00	4s 9+6e12	Moderate	Low		2Sh Ss W	
00	4s 9+6e14	Moderate	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4s 9+6e19	Low	Low			
00	4s 9+6e22	Moderate	Low			
00	4s 9+6s 7	Low	Low			
00	4s 9+6s 9	Low	Low			
00	4s 9+7c 5	Low	Low			
00	4s10	Low	Low	1Ss	1Sh [1Sh W when cultivated]	1Sh [1Sh W when cultivated]
00	4s10+3c 2	Low	Low			
00	4s10+6c 2	Low	Low			
00	4s10+6e21	Moderate	Low	1Sh Ss		
00	4s10+6s 6	Low	Low			
00	4s11	Low	Low	1Ss	1-2W when cultivated	1-2W when cultivated
00	4s11+6e24	Low	Low			
00	4s11+6s 5	Low	Low			
00	4s12	Low	Low	0-1Sb W [1W when cultivated]	0-1W Sb [2W when cultivated]	
00	4s12+3s 4	Low	Low			
00	4s12+5w 2	Low	Low			
00	4s12+6s 3	Low	Low			
00	4s12+6s11	Low	Low			
00	4s12+6s12	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	4s13	Low	Low		0-1Sh [1-2Sh R when cultivated]	0-1W [1Sh R when cultivated]	
00	4s13+6e15	Moderate	Moderate		1Ss Sh		
00	4s13+6e21	Moderate	Low		1Ss Sh		
00	4s14	Low	Low		2W Sh when cultivated	2W Sh when cultivated	
00	4s14+6e27	Low	Low				
00	4s14+6s11	Low	Low				
00	4s14+6s12	Low	Low				
00	4s14+6w 2	Low	Low				
00	4s14+8e 2	Very High	High				
00	4s15	Low	Low		1-2W when cultivated	1-2W when cultivated	
00	4s15+3s 6	Low	Low				
00	4s15+6s 7	Low	Low				
00	4s15+7e10	High	Moderate				
00	4s15+7s10	Low	Low				
00	4w 1	Low	Low		0	0	
00	4w 1+3c 2	Low	Low				
00	4w 1+3w 3	Low	Low				
00	4w 1+4e 3	Low	Low				
00	4w 1+4s11	Low	Low				
00	4w 1+5w 1	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	4w 1+6w 1	Low	Low			
00	4w 1+7s 6	Low	Low			
00	4w 1+7w 1	Low	Low			
00	4w 1+7w 3	Low	Low			
00	4w 2	Low	Low		0-1Sb [1W when cultivated]	0-1Sb [1W when cultivated]
00	4w 2+3s 6	Low	Low			
00	4w 2+3w 1	Low	Low			
00	4w 2+4s 6	Low	Low			
00	4w 2+4s15	Low	Low			
00	4w 2+5w 2	Low	Low			
00	4w 3	Low	Low		0-1Sb	0-1Sb W
00	4w 3+2w 2	Low	Low			
00	4w 3+4s 1	Low	Low			
00	4w 3+4s 4	Low	Low			
00	4w 3+7w 1	Low	Low			
00	4w 4	Low	Low		1Sb	1Sb
00	4w 4+5w 4	Low	Low			
00	5c 1	Low	Low		0-1Sh W	0-1Sh W
00	5c 2	Low	Low		2Sh Ss	0-1Sh
00	5c 2+3e10	Low	Low		1Sh G	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	5c 2+4e 2	Low	Low			
00	5c 2+4e 3	Low	Low	1Sh Ss		
00	5c 2+4e 7	Low	Low			
00	5c 3	Low	Low	1Ss	0-1Sh	0-1Sh
00	5c 3+4e 1	Low	Low			
00	5c 3+4e 7	Low	Low			
00	5s 1	Low	Low	0-1Sh	0-1Sh	0-1Sh
00	5s 1+4e 2	Low	Low			
00	5s 2	Low	Low	0-1Sh	0-1Sh	0-1Sh
00	5s 2+2e 1	Low	Low			
00	5s 2+6e 4	Moderate	Low	1Ss		
00	5s 3	Low	Low	0-1W Sh	0-1D, 0-1W	
00	5s 3+2w 1	Low	Low			
00	5s 3+3s 9	Low	Low			
00	5s 3+4e 9	Low	Low			
00	5s 3+4s 3	Low	Low			
00	5s 3+4s 6	Low	Low			
00	5s 4	Low	Low	0-1W	0-1W	0-1W
00	5s 4+4s11	Low	Low			
00	5s 4+5w 4	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	5s 5	Low	Low		0-1Sb	0-1Sb
00	5s 5+5w 2	Low	Low			
00	5s 6	Low	Low		0-1W	0-1W
00	5w 1	Low	Low		0	0
00	5w 1+3c 2	Low	Low		0	0
00	5w 2	Low	Low			
00	5w 2+4e12	Low	Low			
00	5w 2+4s 6	Low	Low			
00	5w 2+4w 2	Low	Low			
00	5w 2+6e26	Low	Low			
00	5w 2+6w 3	Low	Low			
00	5w 3	Low	Low		0	0
00	5w 3+3e15	Low	Low			
00	5w 3+3w 3	Low	Low			
00	5w 3+6w 3	Low	Low			
00	5w 3+7w 1	Low	Low			
00	5w 4	Low	Low		0	0
00	6c 1	Low	Low	1Sh Ss	1-2W Sh	1-2W Sh
00	6c 1+4e 9	Low	Low			
00	6c 1+6e23	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6c 1+6e27	Low	Low		2G Sh W		
00	6c 1+6w 3	Low	Low				
00	6c 1+7e21	High	Moderate		1Sh G		
00	6c 1+7w 4	Low	Low				
00	6c 2	Low	Low		1W Sh	1W Sh	
00	6c 2+8e 2	Very High	High				
00	6c 2+8e 3	Very High	High		2Es		
00	6c 3	Low	Low		1W	1-2W	
00	6c 4	Low	Low		1-2W Sh	1-2W Sh	
00	6c 4+6e19	Low	Low				
00	6c 4+7c 7	Low	Low				
00	6e 1	Low	Low		2Sh Ss	1-2Sh Sc	1-2Sh Sc
00	6e 1+4e 1	Low	Low		1Ss		
00	6e 2	Moderate	Low	Limestone, E and D slopes. Mapped small area 2Ss, PES 1-2 with mass movement subdominant	2Ss	1-2Sh Sc, 1Ss Su	1-2Sh Ss Sc
00	6e 2+3e 1	Moderate	Low		1Ss T		
00	6e 2+4e 1	Moderate	Low				
00	6e 3	Moderate	Moderate		2Ss Sh	2Ss Ef Sh	2 Ss Ef Sh
00	6e 3+3e 9	Moderate	Moderate				
00	6e 3+6s 6	Moderate	Moderate				

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6e 4	Moderate	Low	Limestone and marble, D and E slopes. Mapped 1Ss, PES 2 with mass movement dominant, considered overestimate	1Ss	2Ss Sh Sc	2Ss Sh Sc
00	6e 5	Moderate	Moderate		2Ss	1-2Ss Sh	1-2Sh Ss
00	6e 5+3s 3	Moderate	Moderate		2Sh Ss		
00	6e 5+4e 1	Moderate	Moderate		1Ss		
00	6e 5+4e 2	Moderate	Moderate		1Ss Sh		
00	6e 5+4e 3	Moderate	Moderate				
00	6e 5+4e 9	Moderate	Moderate				
00	6e 5+7e 1	Moderate	Moderate		2Su Ss		
00	6e 5+7e 3	High	Moderate				
00	6e 5+7e 8	High	High		2Sh Ss Sc		
00	6e 6	Moderate	Low	Hard rocks, E and D slopes. Mapped 1Ss, PES 1-2 with mass movement subdominant, Gw	2Sh G Sc	1-2Sh Ss	1-2Sh Ss
00	6e 6+4e 3	Moderate	Low				
00	6e 7	Moderate	Moderate		2Sb Ss	1-2Ss Su	2Ss Su
00	6e 7+3e14	Moderate	Moderate		1Sh Ss		
00	6e 7+4c 2	Moderate	Moderate				
00	6e 7+4e 7	Moderate	Moderate				
00	6e 7+4e13	Moderate	Moderate				
00	6e 8	Moderate	Moderate		3T, 3Ss Ef Sh	2Sh Ss Su	2Sh Ss T

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6e 8+3e 4	Moderate	Moderate				
00	6e 8+4e 3	Moderate	Moderate		1Sh Ss		
00	6e 8+4e 4	Moderate	Moderate		2Ss Sh T		
00	6e 8+7e 7	High	High		2Ss Sh		
00	6e 8+7e14	Very High	High		2Es Sh T		
00	6e 8+8e 2	Very High	High		3Es Ef Sh		
00	6e 9	Moderate	Moderate		2G Sh W	2Sh G	2Sh G
00	6e 9+4e 4	Moderate	Moderate		2Sh G		
00	6e 10	Low	Low		1Ss	2Sh	2Sh
00	6e10+3c 4	Low	Low				
00	6e10+4c 2	Low	Low		1Sh Ss		
00	6e10+4e13	Low	Low		1Ss Sh		
00	6e10+7e 1	Moderate	Moderate				
00	6e10+7e 3	High	Moderate				
00	6e 11	Moderate	Low	Gw and St, F and E slopes. Mapped very small area of 2Ss, PES 2 with mass movement subdominant. Lower PES than 7e3	2Ss	2Sh Ss Sc	2Sh Ss Sc
00	6e11+4e 3	Moderate	Low				
00	6e11+4e 6	Moderate	Low		1Ss Sh		
00	6e11+4e13	Moderate	Low				
00	6e11+6e15	Moderate	Moderate				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	6e11+7e 3	High	Moderate	2Sh Ss		
00	6e11+7e26	High	Moderate	2Sh Ss		
00	6e11+8e 2	Very High	High	1Ss Sh Sc		
00	6e 12	Moderate	Low	D and E slopes, low rainfall. Mapped small area of 2Ss, PES 1-2 with mass movement subdominant	2Ss Sh	1-2Sh Ss Su 1-2Sh Ss G
00	6e12+4e 9	Moderate	Low		2Sh Ss	
00	6e12+4s 9	Moderate	Low		1Sh G	
00	6e12+7e 6	High	Moderate			
00	6e 13	High	Moderate	Loess. Mapped 3T, PES 2T. Less susceptible than 7e14 (High).	3T Ss Sh	2T Sh, 1Ss 2T Sh, 1Ss
00	6e13+4e 3	High	Moderate		2T	
00	6e13+4e 4	High	Moderate		2T Ss Sh	
00	6e13+4e 9	High	Moderate		1T Ss Sh	
00	6e13+7e 1	High	Moderate			
00	6e13+7e14	Very High	High		3T Sh	
00	6e 14	Moderate	Low	Gw and St, F and E slopes. Mapped 3Ss, PES 2 with mass movement subdominant. Related to 7e2 (Moderate), but slightly gentler slopes and less prone to mass movement	3Ss Sh	2Sh W 2Sh Ss
00	6e14+4e 4	Moderate	Low			
00	6e14+4e 9	Moderate	Low		1Sh Ss	
00	6e14+6e 8	Moderate	Moderate		1Sh Ss	
00	6e14+6e11	Moderate	Low		2Sh Sc Da	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6e14+7e 2	Moderate	Moderate		1Ss Sh		
00	6e14+7e21	High	Moderate				
00	6e 15	Moderate	Moderate		3Ss	2Sh Ss	2Sh Ss
00	6e15+3e12	Moderate	Moderate		1Sh Ss		
00	6e15+3e14	Moderate	Moderate		1Ss Sh		
00	6e15+4e 3	Moderate	Moderate		2Ss		
00	6e15+4e 4	Moderate	Moderate				
00	6e15+4e 6	Moderate	Moderate		2Ss Sh		
00	6e15+4e 7	Moderate	Moderate		1Sh Ss		
00	6e15+4e13	Moderate	Moderate				
00	6e15+4e15	Moderate	Moderate		1Ss Sh		
00	6e15+6s 2	Moderate	Moderate				
00	6e15+7e 1	Moderate	Moderate		2Sh T		
00	6e15+7e14	Very High	High		2T G Ss		
00	6e 16	Moderate	Low	E and D slopes, stable old gravels (Moutere gravels). Mapped small area of 2Ss, PES 2 with mass movement subdominant considered overestimate	2Ss	2Sh G Ss	2Sh Ss G
00	6e16+3c 1	Moderate	Low		2Ss		
00	6e16+3e12	Moderate	Low		1Ss Sh		
00	6e16+3e14	Moderate	Low		1Ss		
00	6e16+4e 3	Moderate	Low		2Ss Sh		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6e16+4e 5	Moderate	Low		1Ss Sh		
00	6e16+4e 6	Moderate	Low		1Ss Sh		
00	6e16+4e 7	Moderate	Low				
00	6e16+6e11	Moderate	Low				
00	6e16+7e11	High	Moderate		3Sh Ss		
00	6e 17	Moderate	Moderate		2Ef	2Ss Su Ef	2Ss Ef Sh
00	6e17+4e 3	Moderate	Moderate		1Ss Ef		
00	6e17+4e 6	Moderate	Moderate		1Ef Ss		
00	6e 18	Moderate	Moderate			2Ss Sh	2Ss Sh
00	6e 19	Low	Low		2Ss Sh	1-2Sh W G Ss	1-2Sh W
00	6e19+4e 9	Low	Low		3W Sh G		
00	6e19+4e12	Low	Low				
00	6e19+4s 9	Low	Low				
00	6e19+6c 3	Low	Low				
00	6e19+6c 4	Low	Low				
00	6e19+7e 6	High	Moderate				
00	6e19+7e12	High	Moderate				
00	6e19+7e17	Low	Moderate		3Su G		
00	6e19+7s 9	Moderate	Low		2G Sh		
00	6e 20	Low	Low		2Sh W		2Sh

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	6e20+4e 9	Low	Low			
00	6e20+4s 9	Low	Low			
00	6e 21	Moderate	Low	E and D slopes, stable rock types. Mapped 2Sh Da, PES 2-3 with mass movement subdominant	2Sh Da	2-3Sh Ss
00	6e21+4e 3	Moderate	Low		1Sh Ss	
00	6e21+4e 6	Moderate	Low			
00	6e21+4s10	Moderate	Low			
00	6e21+4s13	Moderate	Low			
00	6e21+7e 9	High	High		1Ss Sh	
00	6e21+7s 4	Moderate	Low			
00	6e21+8e 2	Very High	High		1Ss	
00	6e 22	Moderate	Low	St and Gw, D and E slopes, low rainfall. Mass movement subdominant to Sh and W	3Sh Sc G	2Sh Sc G
00	6e22+6e11	Moderate	Low		2Sh Ss	
00	6e22+7e12	High	Moderate		2Sh Ss G	
00	6e22+7e21	High	Moderate		2Sh G Su	
00	6e 23	Low	Low		2Sh Ss	2Sh W
00	6e23+4c 2	Low	Low			
00	6e23+4e13	Low	Low			
00	6e23+6c 1	Low	Low			
00	6e23+7e10	High	Moderate			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6e 24	Low	Low		1Ss W	2W	2W
00	6e24+4s 8	Low	Low				
00	6e 25	Moderate	Moderate		2Sh Ss	1-2Sh Ss	1-2Sh Ss
00	6e25+6s 6	Moderate	Moderate				
00	6e25+7e13	High	High				
00	6e 26	Low	Low		2-3W	2-3W	2-3W
00	6e 27	Low	Low		2Ss Da	2W	2Sh W
00	6e27+4e 6	Low	Low				
00	6e27+4e16	Low	Low				
00	6e27+4s12	Low	Low				
00	6e27+5w 2	Low	Low				
00	6e27+6e29	Moderate	Low				
00	6e27+6s12	Low	Low				
00	6e27+8s 2	Low	Low		1Sh G		
00	6e 28	Low	Low		2Sh Ss	2Sh	2Sh, 1Ss
00	6e28+4e 3	Low	Low		1Ss		
00	6e28+4e10	Low	Low				
00	6e28+4e13	Low	Low				
00	6e28+6s 2	Low	Low		1Sh Ss		
00	6e28+6s 6	Low	Low		1Es		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	6e28+6s12	Low	Low			
00	6e28+7e23	Very High	Moderate		2Sh Ss	
00	6e 29	Moderate	Low	Gw and St, E and F slopes. Mapped small area of 2Ss, PES 2 with mass movement subdominant. PES considered overestimate. Correlated with leg11 6e17 (Low)	2Ss	2Sh W G
00	6e29+4e16	Moderate	Low		2Sh Su	
00	6e29+7e11	High	Moderate			
00	6e29+7e17	Moderate	Moderate		2Sh G	
00	6e29+7e21	High	Moderate			
00	6e29+7e23	Very High	Moderate		2Ss	
00	6s 1	Low	Low		0-1Sb D	1-2Sb D. 1W
00	6s 1+4s 1	Low	Low			
00	6s 1+6w 3	Low	Low			
00	6s 1+7s 2	Low	Low			
00	6s 1+7w 1	Low	Low			
00	6s 2	Low	Low		1-2Sh	1-2Sh
00	6s 3	Low	Low		0-2Sb D	0-2Sb D
00	6s 3+4c 3	Low	Low			
00	6s 3+4s 5	Low	Low			
00	6s 3+4s12	Low	Low			
00	6s 3+5w 4	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	6s 3+7s 1	Low	Low			
00	6s 4	Low	Low	1Sh Ss	0-2Sb D	0-1Sb D
00	6s 4+4s 3	Low	Low			
00	6s 4+4s 5	Low	Low			
00	6s 4+6e25	Moderate	Moderate			
00	6s 5	Low	Low	1Ss	1-2W	1-2W
00	6s 5+4s11	Low	Low			
00	6s 5+4w 1	Low	Low			
00	6s 5+7w 2	Low	Low			
00	6s 6	Low	Low	1Ss	0-1Sb	0-1Sh Sb
00	6s 6+6e25	Moderate	Moderate			
00	6s 6+6e28	Low	Low			
00	6s 6+7c 6	Low	Low	1Ss Sh		
00	6s 6+7e13	High	High			
00	6s 6+7e22	High	High			
00	6s 6+7s 7	Low	Low			
00	6s 6+7w 2	Low	Low			
00	6s 6+8e 3	Very High	High	1Ss Sh		
00	6s 7	Low	Low	1-2W		1-2W
00	6s 7+4e11	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6s 7+4e12	Low	Low				
00	6s 7+4s 6	Low	Low				
00	6s 7+4s 9	Low	Low		2Ss		
00	6s 7+6e12	Moderate	Low				
00	6s 7+6e19	Low	Low				
00	6s 7+6s 6	Low	Low				
00	6s 7+6w 3	Low	Low				
00	6s 7+7s 9	Moderate	Low				
00	6s 8	Low	Low		1W	1-2W Sb	
00	6s 8+2s 3	Low	Low				
00	6s 8+4s 6	Low	Low				
00	6s 8+4s 7	Low	Low				
00	6s 9	Low	Low		1-2Sh W	1-2Sh W	
00	6s 9+3c 1	Low	Low				
00	6s 9+4s 9	Low	Low		1Sh G W		
00	6s 9+6e14	Moderate	Low				
00	6s 9+6e19	Low	Low				
00	6s 9+7c 7	Low	Low				
00	6s 9+7e 6	High	Moderate				
00	6s10	Low	Low		1W	1W	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	6s10+4s 8	Low	Low				
00	6s10+6w 4	Low	Low				
00	6s10+7e15	Low	Low				
00	6s11	Low	Low		1G Sh	1-2Sb D W	1-2W Sb D
00	6s11+4e 8	Low	Low				
00	6s11+4s12	Low	Low				
00	6s11+5w 2	Low	Low				
00	6s11+6w 3	Low	Low				
00	6s11+7s 3	Low	Low				
00	6s12	Low	Low		1Ss	1-2W Sh	1-2Sh W Sb
00	6s12+4s 4	Low	Low				
00	6s12+4s14	Low	Low				
00	6s12+4w 1	Low	Low				
00	6s12+5w 2	Low	Low				
00	6s12+6e22	Moderate	Low		1Ss Sh G		
00	6s12+6e27	Low	Low		1Sh G		
00	6s12+6s11	Low	Low				
00	6s12+6w 3	Low	Low				
00	6s12+7w 1	Low	Low				
00	6w 1	Low	Low		0		0-1Sb

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	6w 1+4w 1	Low	Low			
00	6w 1+6s 5	Low	Low			
00	6w 1+7w 1	Low	Low			
00	6w 2	Low	Low	0	0-1Sb	
00	6w 3	Low	Low	0	0	
00	6w 3+4w 2	Low	Low			
00	6w 3+6c 1	Low	Low			
00	6w 3+6c 4	Low	Low			
00	6w 4	Low	Low	0	0	
00	6w 4+4e 2	Low	Low			
00	6w 4+4s 8	Low	Low			
00	6w 4+4w 1	Low	Low			
00	6w 4+6s10	Low	Low			
00	7c 1	Low	Low	1Sh W	1Sh Sc W	
00	7c 1+7w 4	Low	Low			
00	7c 2	Low	Low	1Ss	2Ss Da	2Sh
00	7c 3	Low	Low	2Sh G	2Sh W	2-3Sh W D
00	7c 4	Low	Low	1Sc Da	2Sh W	2W Sh
00	7c 4+6c 1	Low	Low			
00	7c 4+7e10	High	Moderate			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	7c 4+7e21	High	Moderate			
00	7c 4+7w 4	Low	Low			
00	7c 5	Low	Low		2W	2w
00	7c 5+6e19	Low	Low			
00	7c 6	Low	Low		1-2Sh	1-2Sh
00	7c 7	Low	Low		1W Sh G	2-3W Sh
00	7e 1	Moderate	Moderate		3Ss G Sh	2-3Sh Ss Sc
00	7e 1+6e 5	Moderate	Moderate		1Sh Ss	
00	7e 1+6e13	High	Moderate		1Ss T	
00	7e 2	Moderate	Moderate	Gw	3Sh Da, 3Sh G	2-3Sh W
						2-3Sh Ss
00	7e 2+8e 2	Very High	High			
00	7e 3	High	Moderate	Gw + St, F slopes, stable rock type, moderate rainfall. Mapped 3, PES 2-3, mass movement subdominant. PES considered overestimate	3Ss G Sh	2-3Sh Ss Sc
						2-3Sh Ss Sc
00	7e 3+6e11	High	Moderate		1Ss	
00	7e 3+8e 2	Very High	High		2Ss	
00	7e 3+8e11	Very High	High		3Ss Da	
00	7e 4	High	High		2Ss Sh	3Sh Ss
00	7e 4+6e18	High	High		1Sh Ss	
00	7e 4+8e 3	Very High	High		2Ss	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	7e 5	High	High		4Ef	2-4Ef Su Ss	2-4Ef Su Ss
00	7e 6	High	Moderate	St + Gw, E and D slopes, stable rock types, low rainfall. Mapped 3G Sh, PES 3 with mass movement subdominant. Related to 6e19 (Low)	3G Sh	3Sh W	3Sh W G
00	7e 6+6c 3	High	Moderate				
00	7e 6+6e 2	High	Moderate				
00	7e 6+6e19	High	Moderate				
00	7e 6+7e24	High	Moderate		3Sh G		
00	7e 7	High	High		3Ss Sh	2-3Sh Ss	2-3Sh Ss G
00	7e 7+8e 2	Very High	High		3Sh Sc Da		
00	7e 8	High	High		3Ss, 3Da	2-3Ss Sh Da	2-3Ss Sh Da
00	7e 8+8e 1	Very High	High		2Ss		
00	7e 9	High	High		3Ss Sh	3Sh Ss	3Sh Ss
00	7e 9+6e21	High	High		1Sh Ss		
00	7e 9+8e 2	Very High	High		2Ss Sh		
00	7e 9+8e 8	Very High	High		2Sh Ss		
00	7e 10	High	Moderate	D and E slopes, stable rocks. Mapped 2, PES 2-3 with mass movement subdominant	2Sh Ss Su	2Sh W Ss	2-3Sh Ss
00	7e10+7c 4	High	Moderate				
00	7e 11	High	Moderate	Stable old gravels (Moutere Gravels), F and E slopes. Mapped small area of 3Ss, PES 2-3 with mass movement subdominant. Steeper than 6e16 (Low)	3Ss	2-3Sh G Ss	2-3Sh Ss G

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
00	7e11+6e16	High	Moderate	1Sh G			
00	7e11+8e 2	Very High	High	1Ss Sh			
00	7e 12	High	Moderate	Gw + St, low rainfall. Mass movement sub dominant to Sh, Sc, W. Steeper than 6e22 (Low). PES 2-3	3G Sc Sh	3Sh G Sc, 2-3Ss	3Sh Sc W, 2-3Ss
00	7e12+6e19	High	Moderate				
00	7e12+6e22	High	Moderate				
00	7e12+7e 2	High	Moderate				
00	7e12+7e24	High	Moderate				
00	7e 13	High	High	2Ss	3Sh Ss G	3Ss Sh G	
00	7e13+6e25	High	High	1Sh Ss			
00	7e 14	Very High	High	Loess. Reject Very High as not as susceptible as the worst of North Is, PES 2-4. Max mapped is 3T. More susceptible than 6e13 (Moderate)	3T G	2-4T, 2Sh Ss	2-4T Sh
00	7e 15	Low	Low		3W	3W	
00	7e15+2e 2	Low	Low				
00	7e15+6s 7	Low	Low				
00	7e 16	High	Moderate	Gw, low rainfall, mass movement sub dominant to Sh. Steeper than 6e22 (Low), correlated with leg11 7e20 (Moderate). Extensive bare ground but only moderate potential for mass movement	4Sh Da	3Sh Da G	3Sh Da G
00	7e 17	Low	Moderate	Moderately sloping moraines fans and hill country; Sh, W, Sc dominant but up to 4G mapped. Correlated with leg11 7e22 (Moderate)	4G Sh	3Sh W G Ss	3Sh W Sc

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
00	7e17+6s11	Low	Moderate	3G Sb Sh			
00	7e 18	Low	Low	2Sh Ss	3W Sh	3W Sh	
00	7e 19	High	Moderate	Stable rocks on steep slopes, mass movement subdominant	3Sh G	2Sh Ss	2-3Sh Ss G
00	7e 20	High	High	3Ss Sh	3Ss Sh	3Ss Sh	
00	7e20+6e28	High	High	1Ss			
00	7e20+8e 5	Very High	Very High	1Ss			
00	7e 21	High	Moderate	Subalpine and higher, low rainfall, stable St + Gw, mass movement sub dominant to extensive bare ground. PES 2-3 with mass movement subdominant.	3Ss G Sh	2-3Sh W Sc Da, 2-3Ss	2-3Sh Sc W G, 2-3Ss
00	7e21+6e22	High	Moderate	1Sh Ss			
00	7e21+6e29	High	Moderate	1Sh Su			
00	7e21+7c 4	High	Moderate	1G Sh			
00	7e21+8e 6	Very High	Moderate				
00	7e21+8e 9	Very High	High	3Sh Sc G			
00	7e 22	High	High	4Es	3Sh Ss	3Sh Ss	
00	7e22+6e21	High	High	1Sh G			
00	7e22+6e28	High	High				
00	7e22+7s 7	High	High	1Ss Sh			
00	7e22+8e 3	Very High	High	2Ss			
00	7e22+8e 5	Very High	Very High				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
00	7e 23	Very High	Moderate	Gw + St, steep slopes, stable rocks, moderate rainfall, mass movement subdominant to Sh and Sc. PES 3-4 with mass movement subdominant	4Da Sc	3-4Sh Sc W Da	3-4Sh Sc Ss Da W
00	7e23+6e28	Very High	Moderate		1Sh G		
00	7e23+6e29	Very High	Moderate		2Sh Sc Da		
00	7e23+7c 4	Very High	Moderate		2Ss Sh		
00	7e23+8e 8	Very High	High		4Sh Sc G		
00	7e23+8e 9	Very High	High		3Sh Sc G		
00	7e 24	High	Moderate	St + Gw, steep slopes, stable rocks, extensive bare ground, but little mass movement, PES 2-3 with mass movement subdominant	4W Sc Da	2-3Sh W, 2Sc G	2-3Sh W, 2Sc G
00	7e24+6e19	High	Moderate		2Sh G Sc		
00	7e24+6e26	High	Moderate				
00	7e24+8e 4	Very High	High		3Sh Sc G		
00	7e 25	High	High		2Ss	3Sh Ss	3Sh Ss
00	7e25+6s 6	High	High				
00	7e25+7s 1	High	High		1Sh Ss		
00	7e25+7s 7	High	High		1Ss Sh		
00	7e25+8e 1	Very High	High		1Ss Sh Sc		
00	7e25+8e 3	Very High	High		2Ss Sh		
00	7e25+8e 5	Very High	Very High		1Ss		
00	7e25+8s 1	High	High		1Ss Sb		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	7e 26	High	Moderate	Gw + St, F slopes on stable rocks, mass movement subdominant to Sh, Sc, W. Extensive bare ground v little mass movement. Correlated with leg11 7e25 (Moderate)	4Sh G	3Sh Sc W G 3Sh Sc G W, 2-3Sh Sc Da
00	7e26+7e12	High	Moderate			
00	7e26+8e 9	Very High	High		3Sh G	
00	7s 1	Low	Low		1Sb	1-2Sb D
00	7s 1+7e17	Low	Moderate			
00	7s 1+7e25	High	Moderate			
00	7s 1+7w 2	Low	Low			
00	7s 1+8s 1	Low	Low			
00	7s 2	Low	Low		1-2Sb D W	1-2D W Sb
00	7s 2+4s 6	Low	Low			
00	7s 2+6s 1	Low	Low			
00	7s 3	Low	Low		2-3W Sb	2-3W D Sb
00	7s 3+6e26	Low	Low			
00	7s 3+6s11	Low	Low			
00	7s 4	Low	Low		1Ss Es	1-2Sh
00	7s 5	Low	Low		2W Sh	2W Sh
00	7s 5+7e 6	High	Moderate			
00	7s 6	Low	Low		0	0
00	7s 7	Low	Low		1Sh Ss	0-1Sh Sb

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	7s 7+4s13	Low	Low			
00	7s 7+6s 6	Low	Low			
00	7s 7+7e25	High	Moderate			
00	7s 8	Low	Low		0	0-1Sc
00	7s 9	Moderate	Low	PES 1-2G, permeable dredge tailings	4G Sh	1Sh W
00	7s 9+3s 4	Moderate	Low			1-2G W Sh
00	7s 9+4e 9	Moderate	Low		3G Sh Sc	
00	7s 9+4s 9	Moderate	Low			
00	7s 9+8s 2	Moderate	Low			
00	7s10	Low	Low		1-2W	1-2W
00	7s11	Low	Low		1-2W	1-2W
00	7s11+6s10	Low	Low			
00	7s12	Low	Low		2-3W	2-3W
00	7w 1	Low	Low		0	0
00	7w 1+4w 3	Low	Low			
00	7w 1+5w 1	Low	Low			
00	7w 1+6s 1	Low	Low			
00	7w 1+8w 1	Low	Low			
00	7w 2	Low	Low		1Sb	1Sb
00	7w 3	Low	Low		0	0

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	7w 3+6w 4	Low	Low				
00	7w 4	Low	Low		1Sh	1Sh	
00	8c 1	Low	Low		2Sc Da	0-2W Sh	0-2Sh Sc W
00	8c 1+7e21	High	Moderate				
00	8c 2	Low	Low		nil	nil	
00	8e 1	Very High	High	Steep limestone, 5Da mapped but probably mostly earthquake related	5Da	4Ss Sc Da	4Sh Ss Da
00	8e 1+7e 8	Very High	High		2Ss		
00	8e 2	Very High	High	St + Gw, steep slopes. Mapped 5G, PES 5 with mass movement subdominant. PES considered overestimate. Correlated with leg11 8e2 (High)	5G	5Ss Sh G	5Sh Ss G
00	8e 2+6e16	Very High	High		2G D		
00	8e 2+6s 8	Very High	High		2Ss		
00	8e 2+7e 3	Very High	High		1Ss G		
00	8e 2+7e 9	Very High	High				
00	8e 3	Very High	High	Stable rocks on steep slopes, PES considered an overestimate	4Ss	4-5Sh Ss Da	4-5Ss Sh Da
00	8e 3+7e 4	Very High	High		2Ss		
00	8e 3+7e13	Very High	High		2Ss Sh		
00	8e 3+7e22	Very High	High		3Ss		
00	8e 3+7e25	Very High	High		2Ss		
00	8e 3+7s 7	Very High	High		1Ss Sh		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
00	8e 3+8s 1	Very High	High			
00	8e 4	Very High	High	Gw, steep slopes, low rainfall. Mass movement subdominant to Sh W Sc, small area of 5G mapped	5G	5Sh W Sc G 5Sh Sc G W
00	8e 4+7e21	Very High	High			
00	8e 5	Very High	Very High		5Ss Sh	5Sh Ss G Da 5Ss Da G Sh
00	8e 5+7e22	Very High	Very High			
00	8e 5+7e25	Very High	Very High		1Ss	
00	8e 6	Very High	Low	C to E slopes, rolling tops, little mass movement	5Sc Ef	4W Sh 5Sc W Sh
00	8e 7	Very High	Very High	High rainfall	5Ss Da	4Sh Sc Da Ss 4Sc Sh Da Ss
00	8e 8	Very High	High	Gw, above treeline, moderate rainfall, mass movement subdominant to Sh W Sc	5G Sh	5Sh Sc G Da W 5Sh Sc Da Ss G W
00	8e 8+7e 3	Very High	High		4Sh G	
00	8e 8+7e23	Very High	High		1Sh Ss	
00	8e 8+8e 9	Very High	High		4Sc Sh G	
00	8e 9	Very High	High	Gw, above treeline, moderate rainfall, mass movement subdominant to Sh W Sc	5G Sc	4-5Sh W Sc G 4-5 Sc Sh Da G W
00	8e 9+7e12	Very High	High			
00	8e 9+7e21	Very High	High		3Sc Ss G	
00	8e 9+7e23	Very High	High		2Da Sc Sh	
00	8e 9+7e26	Very High	High		3Sh G	
00	8e 10	Very High	Very High	Foredunes	5W	5W

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
00	8e 11	Very High	Very High	Alpine, geological erosion	5G Sc	5 geological	5 geological, 5Sc
00	8e11+8c 2	Very High	Very High				
00	8s 1	Low	Low		2Sc Da	1-2Sh	1-2Sh, 2-3Sb Sh D Sc
00	8s 1+7s 1	Low	Low				
00	8s 2	Low	Low		0-1W		1W
00	8s 3+7e24	High	Moderate		2-3W Sh		2-3Sh Sc
00	8w 1	Low	Low		0		0
00	8w 1+7w 1	Low	Low				
00	8w 2	Low	Low		0		0
00	8w 2+7w 3	Low	Low				
01	1c 1	Low	Low		no extended legend	0-1W, 0-1Sh when cultivated	
01	2e 1	Low	Low		no extended legend	1R, 0-1W, 0-1Sh when cultivated	
01	2e 2	Low	Low		no extended legend	1Sh, 1R when cultivated	
01	2s 1	Low	Low		no extended legend	0-1Sh, 0-1R when cultivated	
01	2s 2	Low	Low		no extended legend	0-1Sh, 0-1R when cultivated	
01	2w 1	Low	Low		no extended legend	1Sb, 1D	
01	2w 1+3e 3	Low	Low		no extended legend		
01	2w 2	Low	Low		no extended legend	0-1Sb, 0-1D	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
01	2w 3	Low	Low			no extended legend	0-1Sb, 0-1D
01	3e 1	Low	Low			no extended legend	1Sh, 1R, 1G, [2Sh, 2W, 2G, when cultivated]
01	3e 2	Low	Low		1G, 1T	no extended legend	1Sh, 1R, 1G [1-2Sh, 1-2R, 1-2G when cultivated]
01	3e 3	Low	Low		1G	no extended legend	1Sh, 1R, 1G [2R, 2Sh, 2G when cultivated]
01	3e 4	Low	Low		1G, 1Ef, 1T	no extended legend	1Sh, 1R, 1G [2R, 2Sh, 1W when cultivated]
01	3e 5	Low	Low			no extended legend	1Sh, 1R, 1G, [1-2W, 1-2Sh, 1-2R when cultivated]
01	3s 1	Low	Low			no extended legend	1W, 1Sh, 1R when cultivated
01	3s 2	Low	Low			no extended legend	1Sh, 1R when cultivated
01	3s 3	Low	Low		1G	no extended legend	0-1R, 0-1Sh when cultivated
01	3s 4	Low	Low			no extended legend	1-2W, 1-2Sh when cultivated
01	3s 4+3w 1	Low	Low			no extended legend	
01	3s 4+4w 1	Low	Low			no extended legend	
01	3s 4+6e14	Moderate	Moderate			no extended legend	
01	3s 4+6w 1	Low	Low			no extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
01	3s 5	Low	Low			no extended legend	0-1G, [0-2Sh, 0-2R when cultivated]
01	3w 1	Low	Low			no extended legend	1-2Sb, 1-2D
01	3w 2	Low	Low			no extended legend	1Sb, 1D
01	3w 3	Low	Low			no extended legend	0-2D, [1W when cultivated]
01	3w 4	Low	Low			no extended legend	0-1W when cultivated
01	4e 1	Low	Low		2G	no extended legend	1Sh, 1G, 1Ss [2Sh, 2R, 2G when cultivated]
01	4e 2	Low	Low		1G	no extended legend	1-2Sh, 1-2Ss, 1-2R, 1-2G, 1-2W [2-3Sh, 2-3R, 2-3W, 2-3G when cultivated]
01	4e 3	Low	Low		1Ef, 1G, 1Ss, 1T	no extended legend	1-2Ss, 1-2Sh, 1-2W, 1-2R, 1-2G, 1-2Ef [2-3Sh, 2-3R, 2-3W, 2-3G when cultivated]
01	4e 3+6s 2	Moderate	Low		1T	no extended legend	
01	4e 4	Low	Low		2Ef	no extended legend	1-2G, 1-2T, 1-2Ef, 1Sh, 1Ss, [2-3Sh, 2-3R, 2-3G when cultivated]
01	4e 5	Low	Low		2T, 1G, 1Ef	no extended legend	1-2Sh, 1-2Ss, 1-2T, 1-2Ef, 1-2R [2-3Sh, 1-2R, 1-2G when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
01	4e 6	Low	Low	2G	no extended legend	2Sh, 2G, 2T, 2Ss, 2Es, 2Ef [2-3Sh, 2-3R, 2-3G when cultivated]
01	4e 7	Low	Low	2T, 1G, 1Ef	no extended legend	1-2Ss, 1-2Es, 1-2Sh, 1-2G [2-3Sh, 2-3R, 2-3W, 2-3G when cultivated]
01	4e 8	Low	Low	2Ef	no extended legend	2Ef, 2G, 1-2Sh, 1-2ss, 1-2T [2-3Sh, 2-3R, 2-3G when cultivated]
01	4e 9	Low	Low	1G, 1Ef	no extended legend	1-2Sh, 1-2W, 1-2G [2Sh, 2W, 2R, 2G when cultivated]
01	4e 10	Low	Low	2G	no extended legend	1-2Sh, 1-2G, 1-2R, 1-2R [2-3R, 2-3G, 2-3W, 2-3Sh when cultivated]
01	4e 11	Low	Low	1Ef, 1G, 1Ss	no extended legend	1-3Sh, 1-3G, 1-3R, 1-3W, 0-1Ss [2-3Sh, 2-3R, 2-3 G when cultivated]
01	4e 12	Low	Low	2G	no extended legend	2Ef, 2Ss, 2T, 2Sh, 2G [2-3Sh, 2-3R, 2-3G when cultivated]
01	4s 1	Low	Low		no extended legend	2Sh, 1W [1R, 1Sh, 1W when cultivated]
01	4s 2	Low	Low	1G	no extended legend	1-2R, 1-2Sh when cultivated

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
01	4s 3	Low	Low	1G, 1T	no extended legend	1G, [1R, 1Sh when cultivated]
01	4s 4	Low	Low	1G, 1Ef, 1T	no extended legend	2G, 2T [1-2Sh, 1-2R, 1-2G when cultivated]
01	4s 5	Low	Low	1G	no extended legend	1-2G, 1-2T, 1-2Sh [2Sh, 2W, 2R, 2G when cultivated]
01	4s 5+4w 3	Low	Low		no extended legend	
01	4w 1	Low	Low		no extended legend	2Sb, 2D
01	4w 2	Low	Low		no extended legend	1W, 1Sh when cultivated
01	4w 2+3s 4	Low	Low		no extended legend	
01	4w 3	Low	Low		no extended legend	2D, 1-2G, 1Sb
01	4w 3+4s 5	Low	Low		no extended legend	
01	4w 4	Low	Low	1G	no extended legend	2Sh, 2R, 2T, 2G, 1Ef [2Sh, 2R, 1G when cultivated]
01	5c 1	Low	Low	1G, 1Ef, 1Ss, 1T	no extended legend	1Sh, 1Ss
01	5c 2	Low	Low		no extended legend	1Sh, 1R, 1G, 1T
01	5s 1	Low	Low		no extended legend	1-2Sh
01	6c 1	Moderate	Low	No mass movement mapped, good soils		1-2G, 1-2T, 1Sh
01	6e 1	Moderate	Low	2Ss 2Ef mapped, PES 2.Good 6e, D E slopes, difficult to see evidence of erosion. Correlated with leg2 part 6e3 (Low)	2Ss, 2Ef, 2T	no extended legend
						2T, 2Ss, 2Es, 2Sh, 2G, 1Su, 1Ef

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
01	6e 2	High	Moderate	2Ss, 2Es mapped. PES 2Ss 2G 2Es	2Ss, 2Es	no extended legend	2Ss, 2Sh, 2G, 2Es 1Ef
01	6e 3	Moderate	Low	Mapped as 1G 1Ss 1Ef, PES 2Ss 2G considered too high	1G, 1Ss, 1Ef	no extended legend	2Ss, 2Sh, 2G
01	6e 4	Moderate	Low	1Ss 1G mapped, PES 1-2	1Ss, 1G	no extended legend	1-2Ss, 1-2Sh, 1G
01	6e 5	Moderate	Moderate		2T, 1G, 1Ss, 1Ef	no extended legend	2Ss, 2Sh, 2Ef, 2G, 2Es
01	6e 6	Moderate	Moderate		1G, 1Ss, 1Ef	no extended legend	2Sh, 2W, 2Ss, 2G
01	6e 7	High	Moderate	2Ef 2G mapped, PES 2, crushed Ar	2Ef, 2G, 2T	no extended legend	3Sh, 2Ef, 2G, 2Ss, 2T, 2Es
01	6e 8	Moderate	Moderate		2Ss, 2Es	no extended legend	2Sh, 2Ss, 2G, 2Ef, 1T
01	6e 8+4e 5	Moderate	Moderate			no extended legend	
01	6e 9	Moderate	Moderate	Gw'	2Ss, 2T	no extended legend	2Ss, 2Es, 2Sh, 2Ef, 2G
01	6e 10	Moderate	Moderate	Gw'	1Ss	no extended legend	2Sh, 2Ss, 2Sc 2G, 1W
01	6e 11	High	Moderate	Volcanic, 2 Ef mapped, PES 2-3	2Ef	no extended legend	2-3Ef, 2-3Es, 2G, 2Ss, 2Sh
01	6e 12	High	Moderate	Sheared mixed lithologies, 2Ef mapped, PES 2-3, see 7e2	2Ef, 2T	no extended legend	2-3Ef, 2-3G, 2T, 2Sh, 2Ss, 2Es
01	6e 13	Moderate	Moderate	Vol + Sed lithologies, 2Ef mapped	2Ef	no extended legend	2Sh, 2Ss, 2G, 1Es
01	6e 14	Moderate	Moderate	sand country	2G	no extended legend	2-3Sh, 2-3W, 2G, 2Ss
01	6e 15	Moderate	Moderate	sand country	1G	no extended legend	2-3W, 2-3Sh, 2-3G, 2Ss
01	6e15+6e 3	Moderate	Moderate			no extended legend	
01	6e 16	High	High	2Ss mapped, subject to Es also, PES 2-3	2Ss	no extended legend	2-3Sh, 2-3Ss, 2-3Es, 2G 2Da
01	6e 17	Moderate	Moderate	Gw'	2Ss, 2Da	no extended legend	2Ss, 2Sh, 2G, 1Es

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
01	6e 18	High	Moderate	1Ss 1G mapped, PES 2-3	1G, 1Ss, 1Ef	no extended legend	2-3Sh, 2-3Ss, 2-3G
01	6e 19	High	High		2G, 2Ss	no extended legend	3G, 3Sh, 3Ss, 3Es
01	6s 1	Low	Low			no extended legend	1Sh, 1G
01	6s 2	Moderate	Low	Mixed lithologies, B and C slopes, 1G 1Ef mapped, PES 1G	1G, 1Ef	no extended legend	1Sh, 1G
01	6s 3	High	Low	Limestone, 1G mapped, PES 2-3T considered overestimate	1G	no extended legend	2-3T, 1-2Sh, 1-2Ss, 1-2G
01	6s 4	High	Moderate	Sand country, 1G mapped, 6s with PES 2-3?	1G, 1T	no extended legend	2-3G, 2-3R, 2-3Sh
01	6s 5	High	Moderate	1G 1Ef 1T mapped, 6s with PES 2-3?	1G, 1Ef, 1T	no extended legend	2-3Sh, 2-3G, 2-3R, 1Ss
01	6w 1	Low	Low			no extended legend	2-3Sb, 2-3D
01	6w 2	Low	Low			no extended legend	1-2D
01	6w 3	Low	Low			no extended legend	1-2D, 1-2Sb
01	7e 1	High	High		3Ss, 3Da	no extended legend	3Ss, 3Da, 2G, 2Sh, 2Es
01	7e 2	Very High	High	Sheared mixed lithologies. 2Ef mapped, PES 3-4. Correlated to leg2 7e4 (Very High), leg6 7e6 (High) and 7e9 (High), leg7 part 7e8 (High), leg10 7e14 (Very High)	2Ef	no extended legend	3-4Ef, 3-4G, 2Es, 2Ss, 2Sh
01	7e 3	High	High		2Ss	no extended legend	2-3Ss, 2-3Sh, 1G
01	7e 4	High	High		2Ss	no extended legend	2-3Ss, 2-3Sh, 2-3Es, 2T, 2G
01	7e 5	High	High	Gw'	2Ss	no extended legend	2-3Sh, 2-3Sc, 2-3Ss, 2G
01	7e 6	Very High	High	Gw', 2Ss mapped, PES 3-4	2Da, 2Ss, 2Es	no extended legend	3-4Ss, 3-4Da, 2-3Sh, 2-3G, 2-3Es

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
01	7e 7	High	High		1Ss, 1G	no extended legend	2-4Sh, 2-4R, 2-3G, 2-3Ss, 1-3W
01	7e 8	Very High	Very High	Crushed argillite	3G	no extended legend	5G, 4Sh, 4Ss, 2Es, 2R, 1Ef
01	7e 9	Very High	High	Sand country, 3Ss, 3Da mapped	3Ss, 3Da	no extended legend	4-5Sh, 4-5W, 4-5G, 2-3Ss
01	7e 10	Moderate	Moderate		2G	no extended legend	4-5W, 4Sh, 4G
01	7w 1	Low	Low			no extended legend	1-3Sb, 1-3D
01	7w 2	Low	Low			no extended legend	1-2W, 1-2Sh, 1-2D, 1G
01	8e 1	Very High	Very High	Foredunes	3G	no extended legend	5W, 4G
01	8e 2	Very High	High	Cliffs, PES 2-5	1Da, 1Ss	no extended legend	2-5Ss, 2-5Da, 2-4Sh
01	8e 3	Very High	High	3Ss mapped, PES2-3	3Ss	no extended legend	3-5Sh, 3-5Sc, 2-3Da, 2-3Ss
01	8s 1	Moderate	Moderate		1Da, 1Ss	no extended legend	4Sh, 4Sc, 1-2Da, 1-2Ss
01	8s 2	Moderate	Moderate			no extended legend	1-2Sh, 1-2G, 1-2W
02	1s 1	Low	Low		0		no bulletin
02	1s 1+7e10	High	High				no bulletin
02	1w 1	Low	Low		0-1Sh when cultivated		no bulletin
02	2e 1	Low	Low		2R, 2Sh when cultivated		no bulletin
02	2e 2	Low	Low		1Sh, 1R when cultivated		no bulletin
02	2e 2+3w 1	Low	Low				no bulletin
02	2e 3	Low	Low		1Sh, 1R when cultivated		no bulletin
02	2e 3+2w 3	Low	Low				no bulletin

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
02	2e 4	Low	Low		1Sh, 1R when cultivated	no bulletin
02	2e 5	Low	Low		1Sh, 1R	no bulletin
02	2s 1	Low	Low		0	no bulletin
02	2s 1+3s 1	Low	Low	1G		no bulletin
02	2s 2	Low	Low		0	no bulletin
02	2s 2+3w 1	Low	Low			no bulletin
02	2s 2+4e 1	Low	Low	1T		no bulletin
02	2s 3	Low	Low		0	no bulletin
02	2s 3+3w 2	Low	Low			no bulletin
02	2s 4	Low	Low		0	no bulletin
02	2s 5	Low	Low		1W when cultivated	no bulletin
02	2w 1	Low	Low		0-1Sb	no bulletin
02	2w 1+2e 2	Low	Low			no bulletin
02	2w 1+2s 2	Low	Low			no bulletin
02	2w 1+3s 1	Low	Low			no bulletin
02	2w 2	Low	Low		0	no bulletin
02	2w 2+3s 1	Low	Low			no bulletin
02	2w 3	Low	Low		0	no bulletin
02	2w 3+3e 7	Low	Low			no bulletin
02	2w 4	Low	Low		1Sb	no bulletin

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
02	3e 1	Low	Low	1-2Sh, 1-2R when cultivated	no bulletin	
02	3e 1+2s 1	Low	Low		no bulletin	
02	3e 1+2w 3	Low	Low		no bulletin	
02	3e 1+3w 1	Low	Low		no bulletin	
02	3e 2	Low	Low	1-2Sh, 1-2R when cultivated	no bulletin	
02	3e 3	Low	Low	1-2Sh, 1-2R when cultivated	no bulletin	
02	3e 3+3e 7	Low	Low		no bulletin	
02	3e 4	Low	Low	1-2Sh, 1-2R, 1-2G when cultivated	no bulletin	
02	3e 5	Low	Low	1-2Sh, 1-2R when cultivated	no bulletin	
02	3e 6	Low	Low	1-2Sh, 1-2R, 1-2W when cultivated	no bulletin	
02	3e 7	Low	Low	2Sh, 2R	no bulletin	
02	3s 1	Low	Low	2G [1W, 1R when cultivated]	no bulletin	
02	3s 1+7e10	High	High	2G	no bulletin	
02	3s 2	Low	Low	1T 0	no bulletin	
02	3s 2+4e 1	Low	Low		no bulletin	
02	3w 1	Low	Low	2Sb	no bulletin	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
02	3w 1+2e 3	Low	Low				no bulletin
02	3w 1+2s 1	Low	Low				no bulletin
02	3w 1+2s 2	Low	Low				no bulletin
02	3w 1+3e 1	Low	Low				no bulletin
02	3w 1+6s 2	Low	Low				no bulletin
02	3w 1+6w 1	Low	Low				no bulletin
02	3w 2	Low	Low		0		no bulletin
02	3w 2+2e 3	Low	Low				no bulletin
02	3w 3	Low	Low		1Sb		no bulletin
02	3w 4	Low	Low		0		no bulletin
02	3w 4+2e 3	Low	Low				no bulletin
02	3w 4+2s 2	Low	Low				no bulletin
02	3w 4+3e 3	Low	Low				no bulletin
02	4e 1	Low	Low		1Ef, 1Es	2-3Sh, 2-3R when cultivated	no bulletin
02	4e 1+2w 3	Low	Low				no bulletin
02	4e 1+3w 1	Low	Low				no bulletin
02	4e 1+6e 4	Moderate	Moderate				no bulletin
02	4e 2	Low	Low		2Ss	2-3Sh, 2-3R when cultivated	no bulletin

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
02	4e 3	Low	Low	1Ef, 1Ss, 1G	1G [2-3Sh, 2-3R, 2G when cultivated]	no bulletin
02	4e 3+6e 3	Moderate	Low			no bulletin
02	4e 4	Low	Low	1Ss	1Sh [12-3Sh, 2-3R when cultivated]	no bulletin
02	4e 5	Low	Low	1Ss	2-3Sh, 2-3R when cultivated	no bulletin
02	4e 6	Low	Low		2-3W, 2-3Sh, 2-3R when cultivated	no bulletin
02	4e 6+6s 1	Low	Low			no bulletin
02	4s 1	Low	Low	0		no bulletin
02	4w 1	Low	Low		2-3Sb	no bulletin
02	4w 1+2e 2	Low	Low			no bulletin
02	4w 1+4e 3	Low	Low	1Ss		no bulletin
02	4w 2	Low	Low	0		no bulletin
02	5c 1	Low	Low	0		no bulletin
02	5s 1	Low	Low	0		no bulletin
02	5s 1+8s 1	Low	Low			no bulletin
02	6e 1	Low	Low	PES 1 but 2Ss, 2Es mapped. Correlates to leg10 6e1 (Low) and 6s1 (Low)	2Ss, 2Es	1Sh, 1Ss
02	6e 1+7e 1	High	High		2Ss	no bulletin
02	6e 1+7e 6	High	High		1Ss	no bulletin

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
02	6e 2	Moderate	Low	PES 1 but 2Es mapped. Similar to 6e1 best of LUC 6	2Es	1Sh, 1Ss	no bulletin
02	6e 3	Moderate	Low	PES 1G 1Ss but 2 Ss mapped. Similar to 6e1 and 2	2Ss	1G, 1Ss, 1Sh	no bulletin
02	6e 4	Moderate	Moderate		1Ss, 1Es, 1G, 1Su	1-2Sh, 1-2G, 1Ss	no bulletin
02	6e 5	Moderate	Low	Gw. Mapped 1, PES 1-2	1Ss, 1Da, 1Es, 1Ef	1-2Sh, 1-2Ss, 1-2G	no bulletin
02	6e 6	Moderate	Low	Gw. Mapped 1, PES 1-2	2Ss, 2Es	1-2Sh, 1-2Ss, 1-2G	no bulletin
02	6e 7	Moderate	Moderate		2Ss	2Sh, 2Ss, 1Ef	no bulletin
02	6e 8	Moderate	Moderate		2Ss	2Sh, 2Ss	no bulletin
02	6e 9	Moderate	Moderate		2Ef, 2Ss, 2G	2Ef, 2G, 1ss, 1Sh	no bulletin
02	6e 9+7s 1	Moderate	Moderate		1Ss		no bulletin
02	6e 10	Moderate	Moderate		2Ss	2Sh, 2Ss	no bulletin
02	6e 11	Moderate	Moderate		2Ss	2Sh, 2Ss	no bulletin
02	6e 12	Moderate	Moderate		1Ss	2Sh, 2Ss	no bulletin
02	6e 13	High	Moderate	Remnant ash over Gw. PES 2-3, mapped 2Ss 2Es. Weathered but stable	2Ss, 2Es	2-3Ss, 2Sh, 2G	no bulletin
02	6e 14	High	Moderate	Gw'. PES 2-3, mapped 2Ss. Weathered but stable	2Ss	2-3Ef, 2-3Ss, 2Sh, 2G	no bulletin
02	6e 15	Low	Moderate	Old Dunes. 1Ss mapped. PES 2Ss. Correlated with leg1 6e6 (Moderate)	1Ss, 1Es	2Ss, 2Sh, 2W	no bulletin
02	6e 16	Moderate	Moderate		2Ss	3Sh, 2Ss, 2G	no bulletin
02	6e 17	High	High	Gw'	2Ss	3Es, 2Ss, 2Sh, 2G	no bulletin

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
02	6e 19	High	Moderate	PES 2Ef 2G, only 1Ef mapped. Correlated with leg6 6e9 (Moderate), leg7 part 6e10 (Moderate), leg8 part 6e10 (Moderate), leg10 6e20 (Moderate)	1Ef	2Ef, 2G, 1Ss, 1Sh	no bulletin
02	6e 21	High	Moderate	Mapped as 2Ss 2Ef, PES 2-3	2Ss, 2Ef	2-3Ss, 2-3Sh	no bulletin
02	6s 1	Low	Low		1Ss	1Sh, 1W, 1Ss	no bulletin
02	6s 2	Low	Low		1Sb		no bulletin
02	6s 2+3w 2	Low	Low				no bulletin
02	6s 2+4w 1	Low	Low				no bulletin
02	6s 2+7w 1	Low	Low				no bulletin
02	6w 1	Low	Low		2D, 1Sb		no bulletin
02	7e 1	High	High		2Ss, 2Da	3Ss, 2sh, 2G	no bulletin
02	7e 2	High	Moderate	Gw. Very small area mapped as 3Ss. PES 3 considered overestimate	3Ss	3Ss, 3Sh, 3Sc, 2G	no bulletin
02	7e 3	High	Moderate	Sand dunes. 1G mapped, PES 2Ss 2G	1Ss, 1G	2Ss, 2G, 2Sh	no bulletin
02	7e 4	Very High	High	PES 3Ef 3Su, mapped as 3Ef 3G, large features, present extent likely maximum extent. Correlated with leg1 7e2 (High), leg 6 7e6 (High) and 7e9 (High), leg7 7e6 (High), leg8 part 7e8 (Very High), leg10 7e14(Very High)	3Ef, 3G	3Ef, 3Su, 2G, 2Ss, 2Sh	no bulletin
02	7e 6	High	High		2Da, 2Ss	2-3Sh, 2-3Ss, 1G	no bulletin
02	7e 7	Moderate	Moderate		1G	3-5W, 2G, 1Ss	no bulletin
02	7e 8	High	High	Gw'	2Da, 2Ss, 2Es	3Ss, 3Es, 2Sh, 2G	no bulletin
02	7e 9	Very High	High	Gw'. Mapped 2Da 2Ss, PES3-4. Correlated leg3 7e8 (High)	2Da, 2Ss	3-4Ss, 3Sh, 3Sc, 2G	no bulletin

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
02	7e 10	High	High	Us	3G	2-3G, 2R, 2Sh, 2Ss	no bulletin
02	7e10+3w 1	High	High		1G		no bulletin
02	7e 11	High	High		3Ss, 3Sh, 2G, 1Ef		no bulletin
02	7e 12	High	High		2Ss	2-3Ss, 2-3Sh	no bulletin
02	7s 1	Low	Low		1Ss	1Sh, 1Ss	no bulletin
02	7s 1+6e 9	Moderate	Moderate				no bulletin
02	7w 1	Low	Low		1-2D		no bulletin
02	8e 1	Very High	High	Volcanic rock, 2Da mapped, PES considered overestimate	2Da	4Sh, 4Ss, 3Sc	no bulletin
02	8e 2	Very High	High	Gw, small area of 4Da mapped, PES considered overestimate	4Da	4-5Ss, 3Sh, 2Sc	no bulletin
02	8e 3	Very High	High	Gw, cliffs, 2Ss mapped	2Ss	4Ss, 4Sh	no bulletin
02	8e 4	Very High	Very High	Foredunes		5W, 2G	no bulletin
02	8s 1	Low	Low		1Da	1Sh, 1Sc	no bulletin
03	2e 1	Low	Low			1R when cultivated	no bulletin
03	2s 1	Low	Low			1Sb	no bulletin
03	2w 1	Low	Low			0	no bulletin
03	3e 1	Low	Low			2Sh, 2R when cultivated	no bulletin
03	3s 1	Low	Low			1W when cultivated	no bulletin
03	3w 1	Low	Low			1Sb	no bulletin
03	4e 1	Low	Low		1T	3Sh, 3R when cultivated	no bulletin

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
03	4e 3	Low	Low		3Sh, 3W when cultivated	no bulletin	
03	4s 1	Low	Low		2W when cultivated	no bulletin	
03	4s 2	Low	Low		1Sb, 1Sb	no bulletin	
03	4w 1	Low	Low		0	no bulletin	
03	6e 1	Moderate	Low	Mapped 1T 1Es 1Ss, PES 1T 1Ss. Tephra covered hill country, D slopes. Correlated with leg4 6e1 (Low)	1Es, 1T, 1Ss	1T, 1Ss	no bulletin
03	6e 2	Moderate	Low	No mass movement mapped. Tephra covered hill country, D slopes. PES 1Ss	1Sh, 1W, 1R, 1Ss	no bulletin	
03	6e 3	Moderate	Low	1Ss 1Es 1T mapped, PES 1T 1Ss. Tephra covered hill country, D/E slopes	1Ss, 1Es, 1T	1T, 1Ss	no bulletin
03	6e 4	Moderate	Low	Tephra covered plateaux, D/E slope. Mapped 1Es, 1Ss, 1T. PES 1Ss 1T	1Es, 1Ss, 1T	1Ss, 1T	no bulletin
03	6e 5	Moderate	Moderate		2Ss	2Ss, 2T	no bulletin
03	6e 6	Moderate	Moderate		1Ss, 1Es, 1T	2Ss, 2Sh	no bulletin
03	6e 7	Moderate	Moderate	Gw'	1Ss, 1G	2Ss, 2Sh	no bulletin
03	6e 8	Moderate	Moderate	Gw'	1Ss	2Sh, 2W, 2Ss	no bulletin
03	6e 9	Moderate	Moderate		1Ss, 1Es	2Ss, 2Sh	no bulletin
03	6e 10	Moderate	Moderate	Gw'	2Ss, 2Es, 2Da	2Ss, 2Sh	no bulletin
03	6e 11	High	High		3Es, 3Ss	2Sh, 2W, 2Ss	no bulletin
03	6s 1	Low	Low		1W	no bulletin	
03	6s 2	Low	Low		1D	no bulletin	
03	6w 1	Low	Low		1D	no bulletin	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
03	7e 1	High	High	Gw'	2Ss	3Ss, 3Sh, 3Da	no bulletin
03	7e 2	High	High		2Ss, 2Da	3Sh, 3W, 3Ss, 3Da	no bulletin
03	7e 3	High	High		3Da	3Ss, 3Sh	no bulletin
03	7e 4	High	High	Gw'	2Ss	3Ss, 3Sh, 3Da	no bulletin
03	7e 5	High	High		1Ss	3Da, 3Sh, 3W	no bulletin
03	7e 6	Low	Low			5W	no bulletin
03	7e 7	High	High		2Ss	3Sh, 3W, 3Ss, 3Es	no bulletin
03	7e 8	Very High	High	Gw'. Axial mountain ranges. Mapped 3Ss, PES 4Da. Correlated with leg2 7e9 (High)	3Ss	4Da, 4Sc	no bulletin
03	7e 9	Very High	High	High rainfall, mapped as 2Ss, 2Da. PES 4?	2Ss, 2Da	4Da, 4Ss, 4Sh	no bulletin
03	7w 1	Low	Low			1D	no bulletin
03	8e 1	Very High	Very High	Foredunes		5W	no bulletin
03	8e 2	Very High	High	Gw. Coastal cliffs. Mapped 3Ss. PES considered overestimate	3Ss	4Sc, 4Ss	no bulletin
03	8e 3	Very High	Very High	Gw, high rainfall, below treeline	3Da	5Da, 5Ss	no bulletin
03	8e 4	Very High	Very High	Gw, high rainfall, above treeline	3Da	5Da, 5Ss	no bulletin
04	1w 1	Low	Low			0	0
04	2e 1	Low	Low			1W, 1R when cultivated	1Sh, 1W, 1R when cultivated
04	2s 1	Low	Low			1W when cultivated	0, [1W when cultivated]
04	2s 2	Low	Low			1W when cultivated	1W [1W when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	2s 3	Low	Low	0	0, [0 under cultivation]	
04	2w 1	Low	Low	0	not listed	
04	3c 1	Low	Low	0	1Sb	
04	3e 1	Low	Low	1-2Sh, 1-2R, 1-2W when cultivated	0-1Sh, 0-1R, 0-1W when cultivated	
04	3e 1+6e 2	Moderate	Moderate	1Ss		
04	3e 2	Low	Low	2R, 1Sh, 1W when cultivated	0, [2R, 1Sh, 1W when cultivated]	
04	3e 2+6e 4	Moderate	Moderate			
04	3e 3	Low	Low	3R, 3G, 1Sh when cultivated	0, [2R, 2G, 1Sh when cultivated]	
04	3e 4	Low	Low	1G	2R, 2W, 1Sh when cultivated	0, [2Sh, 2W, 2R, 1G when cultivated]
04	3e 4+4e 4	Low	Low			
04	3e 5	Low	Low	2Ss	2W, 2Sh, 2R when cultivated	0, [2Sh, 2W, 2Sb 2R when cultivated]
04	3e 5+6e 4	Moderate	Moderate			
04	3e 5+7e 2	High	High	1Ss		
04	3e 6	Low	Low	1G	2Sh, 2R, 2G when cultivated	0-1Sh [2Sh, 2R, 1Sb, 1G when cultivated]
04	3e 7	Low	Low	2G	2Sh, 2R, 2G when cultivated	0, [2Sh, 2R, 2G when cultivated]

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
04	3e 8	Low	Low		2Sh, 2R, 2G when cultivated	0, [2G, 2Sh, 2R when cultivated]	
04	3e 9	Low	Low		2W when cultivated	0, [2W when cultivated]	
04	3e 9+6e11	Moderate	Moderate				
04	3e 10	Low	Low		2Sh, 2R, 2G when cultivated	1Sh 1Sb [2G, 2Sh 2R when cultivated]	
04	3e10+8e 2	Very High	Very High		3G		
04	3e 11	Low	Low		1G	2Sh, 2W, 2G when cultivated	0 [2Sh, 2W, 2G when cultivated]
04	3e 12	Low	Low		1G	2Sh, 2R, 2G when cultivated	1Sh, 1G [2G, 2Sh, 2R when cultivated]
04	3s 1	Low	Low		0		0 [0 when cultivated]
04	3s 2	Low	Low		0		0, [0 when cultivated]
04	3s 3	Low	Low		0		1Sb
04	3s 4	Low	Low		1W when cultivated		0, [1W, 1Sb when cultivated]
04	3s 5	Low	Low		1W when cultivated		0, [1W when cultivated]
04	3s 6	Low	Low		1G	1G [1W when cultivated]	1Sb [1W when cultivated]
04	3s 7	Low	Low			1W when cultivated	0, [1Sh, 1W, 1Sb when cultivated]
04	3w 1	Low	Low		1G	1Sb	1Sb
04	3w 1+6e 2	Moderate	Moderate				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	3w 1+7e 2	High	High			
04	3w 1+7e 9	High	High			
04	4e 1	Low	Low	1Ss	0-1Sh, [2-3Sh, 2-3R when cultivated]	2Ss, [2-3W, 2-3Sh, 2-3R when cultivated]
04	4e 1+6e 2	Moderate	Moderate			
04	4e 2	Low	Low	1G	0-1Sh, [2-3Sh, 2-3R, 2-3W when cultivated]	1Sh, [2-3Sh, 2-3R, 2-3W when cultivated]
04	4e 2+6e 4	Moderate	Moderate			
04	4e 2+6e 6	Moderate	Moderate			
04	4e 3	Low	Low	1G	1Sh, 1G [2-3Sh, 2-3R, 2-3G when cultivated]	1Sh, 1G [2-3Sh, 2-3R, 2-3G when cultivated]
04	4e 4	Low	Low	2G	0-1Sh [2-3Sh, 2-3W, 2-3R when cultivated]	0-1Sh, [2-3Sh, 2-3W, 2-3R, 2G when cultivated]
04	4e 4+6s 1	Low	Low			
04	4e 4+7e 9	High	High	2G		
04	4e 5	Low	Low	1G	0-1Sh, [2-3Sh when cultivated]	1Sh, 1R [2-3Sh, 2-3W, 2-3R, 1Sb when cultivated]
04	4e 6	Low	Low	1G	1Sh, 1G [3Sh, 3R, 3G when cultivated]	1Sh, 1G [3Sh, 3R, 2G, 2Sb when cultivated]
04	4e 7	Low	Low	1G, 1T	1Sh, 1G [3Sh, 3R, 2G when cultivated]	1Sh, 1G [3Sh, 3R, 2G when cultivated]
04	4e 8	Low	Low	1G	1Sh, [3Sh, 3R, 2G when cultivated]	1Sh [3Sh, 3R, 2G when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	4e 8+6e 9	Moderate	Moderate			
04	4e 9	Low	Low	1Ss	1Sh, 1W [2-3Sh, 2-3W, 2-3R when cultivated]	1Sh, 1W [2-3Sh, 2-3W, 2-3R when cultivated]
04	4e 9+6e11	Moderate	Moderate			
04	4e 10	Low	Low	1G	1Sh, 1W [3, 3Sh, 3R when cultivated]	1Sh, 1W [3W, 3Sh, 3R when cultivated]
04	4e 11	Low	Low	2G	1Sh, 1G [3Sh, 3R, 3G when cultivated]	1G, 1Sh [3Sh, 3R, 3G, 2Sb when cultivated]
04	4e 12	Low	Low		2Es, 1Sh 1W [2-3Sh, 2-3W, 2-3R when cultivated]	1Sh 1W [2-3Sh, 2-3W, 2-3R when cultivated]
04	4e 13	Low	Low	1G	1Sh, 1G [3Sh, 3R, 3G when cultivated]	1Sh, 1G [3Sh, 3R, 3G when cultivated]
04	4e 14	Low	Low	1G	1Sh, 1G [3Sh, 3R, 3G when cultivated]	1Sh, 1G [3G, 3Sh, 3R when cultivated]
04	4e 15	Low	Low	2G	1Sh, 1Sb [3G, 3Sh, 3R when cultivated]	3G, 3Sh, 3R, 1Sb when cultivated
04	4e 16	Low	Low		1Sh [1W, 1Sh, 1R when cultivated]	1Sh [3G, 3Sh, 3R when cultivated]
04	4e 17	Low	Low	1G	1Sh, 1G [3G, 3Sh, 3R, 2W when cultivated]	1Sh, 1G [3G, 3Sh, 3R, 2W when cultivated]
04	4e 18	Low	Low	2G	1Sh, 1G [3Sh, 3R, 3G, 2W when cultivated]	1-2Sh, 1-2G [3G, 3Sh, 3R, 2W, 2Sb when cultivated]
04	4e18+6e12	Moderate	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	4e18+6w 2	Moderate	Low			
04	4e18+7e12	High	High	2G		
04	4s 1	Low	Low	1G	0	0, [1W when cultivated]
04	4s 2	Low	Low		1-2W when cultivated	0, [1-2W when cultivated]
04	4s 3	Low	Low	2Sb, 2D		not listed
04	4s 4	Low	Low	2G, 2W		1G, 1W, 1Sb [2G, 2W when cultivated]
04	4s 5	Low	Low	1G	2G, 2W when cultivated	1G, 1W [3G, 3W when cultivated]
04	4w 1	Low	Low	1Sb		1Sb
04	5c 1	Low	Low	0		0, [1Sh when cultivated]
04	6c 1	Low	Low	1W, 1Sh		1W, 1Sh
04	6c 1+7e 6	Moderate	Moderate			
04	6e 1	Moderate	Low	Correlated with leg3 6e1 (Low)	1Ss, 1G	2Ss, 1Sh
04	6e 2	Moderate	Moderate		2Ss	2Ss, 2G
04	6e 2+4e 1	Moderate	Moderate			
04	6e 2+8e 3	Very High	High			
04	6e 3	Moderate	Moderate	2Ss	2Sh, 2Ss	2Sh, 2Ss
04	6e 4	Moderate	Moderate	1G, 1Ss	2Sh, 2Ss, 2G	2Sh, 2Ss, 2G
04	6e 4+3e 2	Moderate	Moderate			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	6e 4+3e 5	Moderate	Moderate			
04	6e 5	Moderate	Moderate	2Ss, 2G	2Ss, 2Sh	2Sh, 2Ss, 1G
04	6e 5+4e 4	Moderate	Moderate			
04	6e 5+4e 6	Moderate	Moderate			
04	6e 5+7e 1	Moderate	Moderate	1T		
04	6e 5+7e 2	High	High	2G		
04	6e 6	Moderate	Moderate	1Ss, 1Es, 1G, 1Su	2Ef, 2Ss, 2G, 2Sh	2Ss, 2Ef, 2Sh, 2G
04	6e 6+3e 5	Moderate	Moderate	1Ss		
04	6e 6+7e 5	High	High			
04	6e 7	Moderate	Moderate	Rotomahana mud	2G	2G, 2Sh
04	6e 7+7e 3	High	High		1G	
04	6e 7+8e 2	Very High	Very High		2G	
04	6e 8	Moderate	Moderate		1Ss, 1G	2Sh, 2Ss
04	6e 9	Moderate	Moderate		2Ss	2Sh, 2Ss
04	6e 9+7e 6	Moderate	Moderate			
04	6e 10	Moderate	Moderate		2G	2Sh, 2G, 2Ss
04	6e 11	Moderate	Moderate		2Da	2Sh, 2Ss
04	6e11+4e 9	Moderate	Moderate			
04	6e11+7e 4	High	High			
04	6e 12	Moderate	Low	Taupo pumice, D and E slopes. Mapped 1G, PES 1Ss	1G	2Sh, 2Ss
						2Sh, 1Ss, 1Sb

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
04	6e12+4e 5	Moderate	Low			
04	6e12+4e18	Moderate	Low			
04	6e 13	Moderate	Moderate	2G	2Sh, 2Ss, 1G	2G, 2Sh, 1Ss
04	6e 14	Moderate	Moderate	2G	2Sh, 2Ss, 2G	2Sh, 2G, 1Ss
04	6e 15	Moderate	Moderate	1Ss, 1G	2Sh, 2G, 2Ss	2Sh, 2G, 2Ss
04	6e15+3e 5	Moderate	Moderate	1G		
04	6e15+4e 5	Moderate	Moderate			
04	6e 16	Moderate	Moderate	1Ss, 1G	2Sh	2Sh, 2G, 2Ss
04	6e 17	High	Moderate	Mapped 2G 2Ss, PES 2G 2Ss	2G, 2Ss	2-3G, 2Sh
04	6e 18	Moderate	Moderate	1Ss	2Ss, 2Sh	2Ss, 2Sh
04	6e 19	Moderate	Moderate	2G	2Sh, 2Ss, 2G, 2T	2G, 2Sh, 2Sb, 2T
04	6e 20	Moderate	Moderate	1Ss	2Sh, 2G	2Sh, 1G
04	6e20+3e 5	Moderate	Moderate			
04	6e 21	Moderate	Moderate	2Ss	2Sh, 2Ss	2Ss, 2Da, 2Sh
04	6e 22	High	Moderate	Mapped 1G, PES 2-3G	1G	2-3G, 2Sh
04	6e 23	Low	Low		2-3W	2-3W
04	6e 24	High	Moderate	Taupo flow tephra prone to gullying. Mapped 2G, PES 2-3G. Correlated leg10 6e26 (Moderate)	2G, 2Da	3G, 3Sb, 2Sh
04	6e24+7e12	High	High		1G	
04	6s 1	Low	Low		1Ss	1Sh, 1Ss
04	6s 1+4e 4	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
04	6s 2	Low	Low		2G	1Sh	1Sh, 1G
04	6s 3	Low	Low			1Sh	1Sh
04	6s 4	Low	Low			1W	1W
04	6s 4+4s 2	Low	Low				
04	6w 1	Low	Low			0	0
04	6w 2	Moderate	Low		1G	2G, 2Sb	2G, 2Sb
04	6w 2+4e 7	Moderate	Low				
04	6w 2+4e12	Moderate	Moderate				
04	7c 1	Low	Low			2Sh, 2W	2W, 2Sh
04	7e 1	Moderate	Moderate		2Ss	2-3Sh, 2Ss	2-3Sh, 2Ss
04	7e 2	High	High	Shallow ash over various rocks. Complex unit, includes valley floor component, PES 3G in bulletin refers to valley floor, 3Ss for slopes	2Ss, 2G	1-2Ss, 1-2Sh, 1G	3Sh, 3Ss, 3G
04	7e 2+3e 5	High	High				
04	7e 2+4e 5	High	High				
04	7e 2+6e24	High	High		1G		
04	7e 3	High	High	Rotomahana mud	2Ss, 2G	3Ss, 3Sh, 3G	3Ss, 3G, 3Sh
04	7e 4	High	High		2Ss, 2Da	3Ss, 3Da, 2Sh	3Ss, 3Da, 2Sh, 2G
04	7e 5	High	High		2Ss, 2G	3Ss, 3Es, 2Sh 2G	3Ss, 2Es, 2Sh, 2G
04	7e 6	Moderate	Moderate		2Ss, 2G	3Sh, 2Ss	3Sh, 2G, 2Ss, 2Da

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
04	7e 7	High	Moderate	Steep slopes (F-G), unstable rock types. Mapped 2G, PES 3G. Only rated as Moderate in Page (1985) correlation	2G	3Sh, 3G	3Sh, 3G
04	7e 8	High	High	90	2Ss, 2G	3Sh, 3G, 2Ss	3Sh, 3G, 2Ss
04	7e 8+4e 5	High	High				
04	7e 9	High	High		3G	3Ss, 3T, 2Sh	3G, 3Ss, 2Sh, 2T
04	7e 10	High	High		2Ss, 2Da	3Ss, 3Da	3Ss, 3Da, 1Sh
04	7e 11	High	High		3Da	3Ss, 3Da, 2Sh	3Da, 3Ss, 2Sh
04	7e 12	High	High		3G	3G, 2-3Sb	3G, 3Sb, 2Sh
04	7e12+6e16	High	High		3G		
04	7e 13	High	High		1G	3G, 3Sh	3Sh, 3G
04	7e 14	High	High		1G, 1Ss	3Sh, 3G	3Sh, 3G, 1Ss
04	7e 15	High	High		2G	3Sh, 3W, 3G	3W, 3Sh, 3G
04	8c 1	Low	Low		1G	2W	2Sh, 2W
04	8e 1	Very High	Very High	Foredunes		5W	5W
04	8e 2	Very High	Very High	Deeply dissected Taupo surfaces	3G	4-5G, 4Sb	5G, 4Sb, 4Sh
04	8e 2+4e18	Very High	Very High				
04	8e 3	Very High	High	Mapped 2Da 2Ss, PES 3-4, stable and unstable rock types	2Da, 2Ss	3-4Da, 3-4Ss	3-4Da, 3-4Ss, 2Sh, 2G
04	8e 4	Very High	Very High	Stable rock types, high rainfall	3Da, 3Ss, 3G	4Da, 3-4Ss	4Da, 3-4Ss, 3-4Sc, 3-4G
04	8e 5	Very High	High	Mapped 2G	2G	5W, 5Sh	5W, 5Sh, 5Sc, 4G
04	8e 6	Very High	High	Mixed lithologies and topographies in this unit. Mapped 2Da	2Da	4W, 4Sh, 4Sc	4W, 4Sh, 4Sc, 3Da, 3Ss

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>		Maximum mapped erosion <sup>3</sup>	Potential erosion	
			Bloomberg et al. 2011	Revised 2015		Extended legend	Bulletin
04	8e 7	Very High	High	Mapped 3G, PES 3G	3G	5W, 5Sh, 5Sc	5W, 5Sh, 5Sc, 3G
04	8s 1	Low	Low		1Ss, 1G	1Ss	1Sh, 1Ss
04	8w 1	Low	Low			0	1Sb
04	8w 1+4s 4	Low	Low				
04	8w 2	Very High	Low	PES 5G when drained	5G		not recorded
05	2e 1	Low	Low		1G	0 [1W when cultivated]	no bulletin
05	2w 1	Low	Low			0-1D	no bulletin
05	3e 1	Low	Low			0 [1-2R when cultivated]	no bulletin
05	3w 1	Low	Low			0-1D	no bulletin
05	4e 1	Low	Low			0 [2R, 2Sh when cultivated]	no bulletin
05	4s 1	Low	Low			0 [2W when cultivated]	no bulletin
05	4w 1	Low	Low			0-1Sb, 0-1D	no bulletin
05	6e 1	Moderate	Moderate		2Ss	1-2Ss	no bulletin
05	6e 1+7e 1	High	Moderate				no bulletin
05	6e 2	Moderate	Moderate		1Ss, 1Da	2Ss, 2Sh	no bulletin
05	6e 4	Moderate	Moderate			2Ss, 2G	no bulletin
05	6e 5	Moderate	Moderate		1Ss, 1Da	1-2Ss	no bulletin
05	7e 1	High	Moderate	Gw, not as steep as 7e2. Only 2 mapped, and PES 2-3	2Ss, 2Da	2-3Ss, 2-3Sh	no bulletin

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
05	7e 2	High	Moderate	Gw. PES considered too high. Correlated with leg6 7e11 (rated as High but regional difference), leg8 7e10 (downrated to Moderate), leg9 7e2 (downrated to Moderate)	3Da, 3Ss	3-4Ss, 3-4Sh, 3-4Sc	no bulletin
05	7e 3	Low	Low	Dunes, YBS soils, probably included foredune as well stable dunes	3W		no bulletin
05	8e 1	Very High	High	Gw. PES considered overestimate	3Da	4-5Ss, 3-4Sc, 3G	no bulletin
05	8e 2	Very High	High	Gw. PES considered overestimate	4Da	5Ss, 4Sc, 3G	no bulletin
05	8e 3	Very High	Moderate	Gw. Mapped 2Da, easy slopes	2Da	5W, 5Sh	no bulletin
06	1c 1	Low	Low			no extended legend	0, [1W when cultivated]
06	1w 1	Low	Low			no extended legend	1Sb, [1W when cultivated]
06	2e 1	Low	Low		1G	no extended legend	1G, [1W, 1R, 1Sh, when cultivated]
06	2s 1	Low	Low			no extended legend	1Sb, 1D
06	2s 1+3s 1	Low	Low			no extended legend	
06	2s 1+3w 3	Low	Low			no extended legend	
06	2s 2	Low	Low			no extended legend	1Sb, [0-1W when cultivated]
06	2s 3	Low	Low		1G	no extended legend	1G, 1Sb [1Sh, 1R, 1W when cultivated]
06	2w 1	Low	Low			no extended legend	2Sb, [1W when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
06	2w 1+2s 2	Low	Low		no extended legend	
06	2w 2	Low	Low		no extended legend	1Sb
06	2w 2+2s 1	Low	Low	1G	no extended legend	
06	3c 1	Low	Low	1G	no extended legend	1G, 1Rs, 1Sb [1W when cultivated]
06	3c 1+4w 2	Low	Low		no extended legend	
06	3c 2	Low	Low		no extended legend	2Sb
06	3c 2+6s 2	Low	Low		no extended legend	
06	3e 1	Low	Low	1Ef, 1Rs	no extended legend	1Rs [2Sh, 2R when cultivated]
06	3e 2	Low	Low	1G	no extended legend	1Sh, 1W, 1G [2Sh, 2R, 2W when cultivated]
06	3e 3	Low	Low	1Ef, 1Rs	no extended legend	0, [2Sh, 2R, 1W when cultivated]
06	3e 4	Low	Low	1G, 1Ss, 1T	no extended legend	1T, 1G, 1Sh [2Sh, 2R, 2W, 1T when cultivated]
06	3e 4+3w 3	Low	Low		no extended legend	
06	3e 5	Low	Low	1Ss	no extended legend	1T, 1Sh [2Sh, 2R, 2W 1T when cultivated]
06	3s 1	Low	Low	1G	no extended legend	2D, 2Sb, 1G
06	3s 1+8s 2	Low	Very High		no extended legend	
06	3s 2	Low	Low	1Ss, 1G	no extended legend	0, [1Sh, 1R, 1W when cultivated]

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
06	3s 2+2w 1	Low	Low		no extended legend	
06	3s 2+3w 3	Low	Low		no extended legend	
06	3s 2+8e 2	Very High	Very High	2Rs	no extended legend	
06	3s 3	Low	Low		no extended legend	1Sb, [1W when cultivated]
06	3s 3+3w 1	Low	Low		no extended legend	
06	3w 1	Low	Low		no extended legend	1D
06	3w 2	Low	Low	1G	no extended legend	1G, 0-1D
06	3w 3	Low	Low	1Ef	no extended legend	2Sb, 2D, 1G
06	3w 3+2s 1	Low	Low		no extended legend	
06	3w 3+2s 3	Low	Low		no extended legend	
06	3w 3+2w 1	Low	Low		no extended legend	
06	3w 3+3s 2	Low	Low		no extended legend	
06	3w 3+4s 1	Low	Low		no extended legend	
06	3w 3+8s 2	Low	Very High		no extended legend	
06	3w 4	Low	Low		no extended legend	1D
06	3w 5	Low	Low		no extended legend	2Sb, 2D
06	4c 1	Low	Low		no extended legend	0 [2W, 2Sh when cultivated]
06	4c 1+6e19	Moderate	Moderate		no extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	4e 1	Low	Low		1G, 1Ss, 1Ef, 1T	no extended legend	0-1G, 0-1Ss, 0-1Ef [2Sh, 2R, 1G when cultivated]
06	4e 2	Low	Low		1Ef	no extended legend	1Ef [2Sh, 2R, 2G when cultivated]
06	4e 3	Low	Low		1G, 1Ss, 1Su	no extended legend	1G [3Sh, 3R when cultivated]
06	4e 4	Low	Low		1G, 1Ef, 1Ss, 1T	no extended legend	1Sh, 1T, 1G, 1Ef [3Sh, 3R, 2W, when cultivated]
06	4e 5	Low	Low		2Ss	no extended legend	2Ss, 1Sh, 1G, 1T, 1Sb [3Sh, 3R, 2W, 2T when cultivated]
06	4e 5+3c 1	Low	Low		1Rs	no extended legend	
06	4e 5+6s 2	Low	Low		1G	no extended legend	
06	4s 1	Low	Low		1G	no extended legend	2D, 2Sb, 1G
06	4s 1+4w 1	Low	Low			no extended legend	
06	4s 1+7e26	Low	High			no extended legend	
06	4s 2	Low	Low			no extended legend	1W [2W, 1R when cultivated]
06	4s 3	Low	Low		1G, 1Ss	no extended legend	1Sh, 1G, 1W [2W, 2R when cultivated]
06	4w 1	Low	Low			no extended legend	2Sb, 2D, 1G
06	4w 1+2s 1	Low	Low			no extended legend	
06	4w 1+7e26	Low	High			no extended legend	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
06	4w 1+8s 2	Low	Very High		no extended legend	
06	4w 2	Low	Low		no extended legend	1Sb, 1D
06	6e 1	Moderate	Moderate	1Ss, 1G, 1Ef, 1T	no extended legend	2Ss, 1G
06	6e 1+4w 1	Moderate	Moderate		no extended legend	
06	6e 2	Moderate	Moderate	2Ef	no extended legend	2Ef, 1Ss, 1G, 1Rs
06	6e 3	Moderate	Moderate	2Ss	no extended legend	2Ss, 1G, 1Rs, 1Sh
06	6e 4	Moderate	Moderate	2Ef	no extended legend	2Ef, 1G, 1Ss, 1Sb
06	6e 5	Moderate	Moderate	1Ss, 1Ef, 1G, 1T	no extended legend	2Ss, 1G
06	6e 6	Moderate	Moderate	2G, 2Ef	no extended legend	2G, 2Ef, 1Su, 1Ss, 1Sh
06	6e 7	Moderate	Moderate	1Ss, 1Ef, 1G, 1T, 1Su	no extended legend	2Ss, 1Sh, 1T, G
06	6e 8	Moderate	Moderate	1Ss, 1G, 1Ef	no extended legend	2Ss, 2Rs, 1G, 1Ef, 1Sh
06	6e 9	Moderate	Moderate	2Ef, 2G	no extended legend	2Ef, 2G, 1Ss
06	6e 10	Moderate	Moderate	2Ss, 2G, 2Ef, 2Su	no extended legend	2Ss, 2Ef, 1G, 1Rs, 1Sh
06	6e10+3w 3	Moderate	Moderate	1Ef	no extended legend	
06	6e 11	Moderate	Moderate	2Ss	no extended legend	2Ss, 2Sh, 1Rs, 1G, 1T
06	6e 12	Moderate	Moderate	2Ss, 2Ef	no extended legend	2Ss, 1Ef, 1Rs, 1G, 1Sh
06	6e 13	Moderate	Moderate	1Ss, 1Ef, 1G	no extended legend	2Ss, 2Sh, 1Rs, 1G
06	6e 14	Moderate	Moderate	2Ss	no extended legend	2Ss, 1G, 1T, 1Rs, 1Ef, 1Sh

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	6e 15	Moderate	Moderate		1Ss, 1G, 1Da	no extended legend	2Ss, 2G, 2Rs, 2Sh
06	6e 16	Moderate	Moderate		2Ss, 2Rs, 2G	no extended legend	2Ss, 3Sh, 1Rs
06	6e 17	Moderate	Moderate		1Ss	no extended legend	2Ss, 1Rs, 1G, 1Sh
06	6e 18	Moderate	Moderate		2Ef, 2Su	no extended legend	2Ef, 2G, 2Ss, 1Sh, 1Su
06	6e 19	Moderate	Moderate		2Ss, 2G, 2Su	no extended legend	2Ss, 2G, 1Su, 1Rs, 1T, 1Sh
06	6e 20	Moderate	Moderate		2Ef	no extended legend	2Rs, 2Ef, 1Sh, 1G, 1T
06	6e 21	Moderate	Moderate		3Ef	no extended legend	2G, 2Ef, 2Ss, 2Rs, 1Sh, 1Su
06	6e 22	Moderate	Moderate		2Ss, 2Ef, 2G	no extended legend	2G, 2Ef, 2Rs, 2Ss
06	6e 23	Moderate	Moderate	Gw	2Ss, 2Ef, 2G	no extended legend	2G, 2Ss, 2Rs, 1Sc, 1Su, 1Ef
06	6e23+6s 2	Moderate	Moderate			no extended legend	
06	6e 24	Moderate	Moderate	Gw	2Ss, 2Rs, 2G	no extended legend	2G, 2Ss, 2Rs, 2Sh, 1Su, 1Ef
06	6e 25	Low	Low			no extended legend	2W
06	6e25+7w 1	Low	Low			no extended legend	
06	6s 1	Low	Low			no extended legend	1D
06	6s 2	Low	Low			no extended legend	2D, 2Sb
06	6s 2+7w 1	Low	Low			no extended legend	
06	6s 3	Low	Low			no extended legend	1W
06	6s 3+4s 2	Low	Low			no extended legend	
06	6s 3+8e 1	Very High	Very High			no extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	6s 3+8s 2	Low	Very High			no extended legend	
06	6w 1	Low	Low			no extended legend	3D, 2Sb
06	7e 1	Very High	Very High	Frittered mudstone. Mapped 3Ss, PES 4Ss. Correlated with leg7 7e1 (High), leg10 7e1 (High) and 7e2 (High). Regional difference – more deformed and shattered rocks	3Ss, 3Rs	no extended legend	4Ss, 2Ef, 2G, 2Rs, 1Su
06	7e 2	High	High		3Ss	no extended legend	3Ss, 2Sh, 2Rs, 1G
06	7e 3	High	High		3Da, 3Ss, 3Rs	no extended legend	3Ss, 2Sh, 2G, 2Rs, 2Su, 1Rf
06	7e 3+7e23	Very High	Very High		3Ss	no extended legend	
06	7e 3+8s 1	High	High		2Rs	no extended legend	
06	7e 4	High	High		2Ss	no extended legend	3Ss, 2Sh, 2Rs, 1G
06	7e 5	High	High		2Ss	no extended legend	3Ss, 2Ef, 2Sh, 1Su, 1G
06	7e 6	Very High	High	Mapped 3Ef, tend to be old features, PES lower than 7e21	3Ef, 3Su, 3G	no extended legend	4Ef, 3G, 2Rs, 1Sh
06	7e 7	High	High		2Ef, 2G, 2Ss	no extended legend	3Ef, 2G, 2Rs, 1Su, 1Ss, 1Sh
06	7e 8	High	High		3Ss, 3G	no extended legend	3Ss, 2G, 2Sh, 2Ef, 2Rs, 1Sc
06	7e 9	High	High		3Ef	no extended legend	3Ef, 2G, 1Ss, 1Rs
06	7e 10	High	High		2Ss	no extended legend	3Ss, 2Sh, 1Rs

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	7e 11	High	High	Gw and Ar. Correlation with leg4 7e10 (High), leg5 7e2 (Moderate), leg8 7e10 (Moderate), leg10 7e10 (Moderate). Considered more erodible because of argillite influence and more deformed rocks	3Da, 3Ss	no extended legend	3Ss, 2G, 1Rs, 1Rf, 1Sc, 2Sh, 2W
06	7e11+8s 1	High	High		2Rs	no extended legend	
06	7e 12	High	High		2Ef	no extended legend	3Ef, 2G, 1Ss, 1Sh
06	7e 13	High	High		2Ss, 2Da, 2Su	no extended legend	3Ss, 2Es, 2Rs, 2Sh
06	7e 14	High	High		2Ss	no extended legend	3Ss, 2Sh, 2Rs
06	7e 15	High	High		3Ss	no extended legend	3Ss, 2Sh, 2Rs
06	7e15+8e 3	Very High	Very High		2Rs	no extended legend	
06	7e15+8s 1	High	High		1Ss	no extended legend	
06	7e 16	High	High		2Ss, 2Da	no extended legend	3Ss, 2Rs, 2G, 2Sh, 1Su
06	7e 17	High	High		3Ss	no extended legend	3Ss, 2Rs, 2Sh, 2G
06	7e 18	Very High	Very High		4Ef	no extended legend	4Ef, 3G, 1Su, 1Sb
06	7e 19	Very High	Very High		4Ef	no extended legend	4Ef, 3G, 2Su, 2RS, 1Ss
06	7e19+8s 2	Very High	Very High		3Ef	no extended legend	
06	7e 20	High	High		2Ss	no extended legend	3Ss, 3Sh, 2Rs, 1G
06	7e 21	Very High	Very High		4G, 4Ss	no extended legend	4G, 4Ss, 3Ef, 3Su, 3Rs, 2Sh
06	7e 22	Very High	Very High		4G, 4Su	no extended legend	4G, 4Su, 3Ef, 3Ss, 2Rs, 2Sc, 2Sb

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	7e 23	Very High	Very High		4Ss	no extended legend	4Ss, 3Rs, 3G, 3Sh, 2Ef, 2Su
06	7e23+7e 8	Very High	Very High		3Rs	no extended legend	
06	7e 24	Very High	Very High		4G, 4Su	no extended legend	4G, 3Ef, 3Su, 3Rs, 2Ss, 2Sb, 2Sh
06	7e 24+8e 7	Very High	Very High		3Rs	no extended legend	
06	7e 25	Very High	Very High		4Ef, 4G	no extended legend	4Ef, 3G, 3Su
06	7e 26	Low	High	Active floodplain prone to destruction by river avulsion	1G	no extended legend	4D, 4Sb, 1G
06	7e 26+8s 2	Low	Very High			no extended legend	
06	7e 27	Low	Low			no extended legend	4W
06	7e 27+6s 3	Low	Low			no extended legend	
06	7e 27+7w 1	Low	Low			no extended legend	
06	7s 1	Moderate	Moderate		1Ss	no extended legend	2Ss, 2Sh, 2Rf
06	7s 2	Moderate	Moderate		2Ss	no extended legend	2Ss, 2Sh, 1Rf
06	7s 2+8s 1	Moderate	Moderate		1Ss, 1Rs	no extended legend	
06	7w 1	Low	Low			no extended legend	1D
06	7w 1+6w 1	Low	Low			no extended legend	
06	8e 1	Very High	Very High	Foredunes		no extended legend	5W
06	8e 1+7e27	Very High	Very High			no extended legend	
06	8e 2	Very High	Very High		4Ss, 4Su, 4G	no extended legend	5Ss, 5Sh, 5Su

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
06	8e 3	Very High	Very High		3Ss, 3Rs, 3Da	no extended legend	4Rs, 3Ss, 3Su, 3Sc, 3Rf, 2G
06	8e 4	Very High	Very High	Gw	3Da	no extended legend	4Ss, 3Rs, 3Sc, 3G
06	8e 5	Very High	Very High		4Da	no extended legend	5Ss, 4Rs, 3Sh, 3G, 2Sc
06	8e 6	Very High	Very High		3Da	no extended legend	5Ss, 3Rs, 3Sh, 2G
06	8e 7	Very High	Very High	Gw and Ar	4Da, 4G, 4Su	no extended legend	5G, 5Ss, 5Sc, 4Su, 4Sb, 4Rs
06	8e 8	Very High	Very High	Gw and Ar	2Da, 2Ss, 2G	no extended legend	4Sc, 3Da, 3Ss, 3Sh, 2G
06	8e 9	Very High	Very High		5G	no extended legend	5G, 5Rs, 5Ef
06	8s 1	Moderate	Moderate		2Ss	no extended legend	2Ss, 2Sh, 2Sc, 2Da, 1Rf
06	8s 1+7e11	High	High		1Ss	no extended legend	
06	8s 2	Low	Very High	Very active riverbed		no extended legend	5D, 3Sb
06	8s 2+3s 1	Low	Very High			no extended legend	
06	8s 2+3w 3	Low	Very High			no extended legend	
06	8s 2+6w 1	Low	Very High			no extended legend	
06	8s 2+7e26	Low	Very High			no extended legend	
07	1c 1	Low	Low		0	0	
07	1w 1	Low	Low		1Ss	0	not listed
07	2e 1	Low	Low			1-2W when cultivated	1-2W when cultivated
07	2w 1	Low	Low		0		not listed

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
07	3e 1	Low	Low		1T, [1Sh, 1R when cultivated]	1-2Sh, 1-2R, 1-2W when cultivated	
07	3e 2	Low	Low		1-2W when cultivated	1-2W	
07	3e 3	Low	Low		1T, [1-2W, 1-2Sh, 1-2R when cultivated]	0, [1-2W, 1-2Sh, 1-2R when cultivated]	
07	3s 1	Low	Low		0-1W when cultivated	1W when cultivated	
07	3s 2	Low	Low		1W when cultivated	0 [1W when cultivated]	
07	3s 3	Low	Low		1W when cultivated	not listed	
07	3s 4	Low	Low		0	not listed	
07	3w 1	Low	Low		0	not listed	
07	3w 1+3s 3	Low	Low				
07	3w 2	Low	Low		1-2D	not listed	
07	4c 1	Low	Low		2G, 1Sh, 1W when cultivated	1-2Sh, 1-2W, 1-2G when cultivated	
07	4e 1	Low	Low		1T, [3Sh, 3R when cultivated]	3Sh, 3R, 2W when cultivated	
07	4e 2	Low	Low		1Ss, 1T	1T, [3Sh, 3R, 1G when cultivated]	0, [3Sh, 3W, 3R when cultivated]
07	4e 2+6e 6	Moderate	Moderate				
07	4e 3	Low	Low		1G	2G [2-3Sh, 2-3R, 2-3G when cultivated]	1-2G [3Sh, 3R, 3G, 2W when cultivated]
07	4e 4	Low	Low			3Sh, 3W, 3R when cultivated	0, [3Sh, 3W, 3R when cultivated]

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
07	4e 5	Low	Low		1G	1G, 1Sh [3G, 2Sh when cultivated]	3G, 2Sh 2W when cultivated
07	4s 1	Low	Low			1W when cultivated	0 [1W when cultivated]
07	4s 2	Low	Low		1G	2G, 1Sh, 1W [2Sh, 2W, 2G when cultivated]	0-1Sh, 0-1W, 0-1G [2Sh, 2W, 2G when cultivated]
07	4s 2+8e 4	Very High	Very High		2G		
07	4w 1	Low	Low		0		not listed
07	4w 2	Low	Low			2G, 1W when cultivated	not listed
07	5c 1	Low	Low			1Sh	1Sh
07	6c 1	Low	Low			1Sh	not listed
07	6c 2	Low	Low			1Sh, 1W	1Sh, 1W
07	6c 3	Low	Low			1Sh, 1W	1Sh, 1W
07	6e 1	Low	Low		2Ss	1Ss, 0-1T	1T, 1Ss
07	6e 1+4e 2	Low	Low				
07	6e 2	Low	Low		2Ss	1-2Ss, 1T, 1Sh	1Ss, 1Sh, 1G, 1T
07	6e 3	Moderate	Moderate		2G, 2Ef	2Ss, 2Ef, 2G, 2Sh	2 not listed
07	6e 4	Moderate	Moderate		2Ss	2Ss, 1G, 1Sh	2Ss, 1Sh, 1G
07	6e 5	Moderate	Moderate		2Ss, 2G	2Ss, 2G, 1T, 1Sh	2Ss, 1Sh, 1G, 1T
07	6e 6	Moderate	Moderate		3Ss	2Ss, 1Sh	2Ss, 1T, 1Sh, 1G
07	6e 7	Moderate	High	Mapped 3Ss, PES 2-3	3Ss	3Ss, 1Sh, 1T	2-3Ss, 1Sh, 1T
07	6e 8	Moderate	Moderate		2Ss	2Ss, 1Sh	2Ss

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
07	6e 10	Moderate	Moderate		2Ss, 2Ef, 2Su, 2G	2Ef, 2G, 2Su, 1Ss	not listed
07	6e 11	Moderate	Moderate		2Ss	2Ss, 1G	2Ss, 1G, 1T
07	6e 12	Low	Moderate	Mapped 1Ss 1Da, PES 2Ss. Correlated with leg4 6e21 (Moderate), leg5 6e5 (Moderate), leg6 6e23 (Moderate)	1Ss, 1Da	2Ss, 2Sc, 2Sh, 1G	2Ss, 2Sc, 2Sh
07	6e 13	Low	Low			2W	2W
07	6e 14	Moderate	Moderate		2Ss	2Ss, 1Sh	2Ss, 1Sh
07	6e 15	High	High		3G	3G, 2Sh, 1Ss	2-3G, 2Sh
07	6e 16	Moderate	Moderate		1G	3Sh, 3W, 2G, 1Ss	3Sh, 3W, 2G
07	6s 1	Low	Low		0	0	0
07	6s 3	Low	Low		1D		not listed
07	6w 1	Low	Low		0		not listed
07	7e 1	High	High		3Ss	3Ss, 3Ef, 2G	not listed
07	7e 2	High	High		3Ss	2-3Ss, 2G, 1Sh	2-3Ss, 2G, 1Sh
07	7e 3	Very High	High	Mapped 2Ss, PES 3-4	2Ss	3-4Ss, 2Sh, 1G, 1T	3-4Ss, 2Sh, 1G, 1T
07	7e 3+8e 2	Very High	High		1Ss		
07	7e 4	Very High	Very High		4Ss	4Ss, 1Sh, 1G	4Ss, 2Sh, 1G
07	7e 5	High	High		3Ss	2-3Ss, 2Sh	2-3Ss, 2Sh
07	7e 6	High	High		3Ss, 3Ef	3Ef, 3G, 2G, 2Su	not listed
07	7e 7	High	High		2Da, 2Ss	3Sc, 3Ss, 2-3G, 2Sh	3Ss, 3Sc, 2G, 2Sh
07	7e 7+8e 4	Very High	Very High		2G		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
07	7e 8	High	High		2Ss, 2G	3Ss, 2G, 2Ef	not listed
07	7e 9	Moderate	High	Mapped 3Ss, PES 2-3	3Ss	2-3Ss, 1Sh, 1G	2-3Ss, 1Sh, 1G
07	7e 9+8e 2	Very High	High		2Ss		
07	7e 10	Very High	Very High		4Ef, 4Su	4-5Su, 4Ef, 4G, 2Ss	not listed
07	7e 11	Very High	Very High		4Ss	4-5Ss, 2-3G	4-5Ss, 2G
07	7e11+8e 2	Very High	Very High		4Ss		
07	7e 12	Moderate	Moderate		2Ss, 2Da, 2G	4Sh, 4W, 3G, 1Ss	4Sh, 4W, 2Ss, 2G
07	7e12+6e16	Moderate	Moderate				
07	7e 13	Low	Low			5W	4-5W
07	7e 14	Very High	High	Underlain by competent rock types. Mapped 2Ss 2Da, PES 3-4. Correlated with leg4 7e11 (High), leg6 7e20 (High), leg10 7e11 (High)	2Ss, 2Da	3-4Ss, 2G	3-4Ss, 2G, 2W
07	7e 15	Very High	Very High		3G	5G, 3Sc, 1Ss	4-5G
07	7e 16	Very High	High	Mapped 2G, PES 4G. Correlated with leg4 7e12 (High), leg10 7e19 (High)	2G	4G, 3Sh, 3W	4G, 3Sh, 3W
07	7e 17	Low	Moderate	Mapped 1G, PES 2G	1G	4Sh, 4W, 3G	4Sh, 4W, 2G
07	7e 18	Moderate	Moderate		2G, 2Da	4Sh, 4W, 4Sc, 2-3Ss	4Sh, 4W, 3Sc, 2G, 2Ss
07	7e 19	High	High		3G	4G, 2Sh, 1Ss	3G, 3Sh
07	7s 1	Low	Low			1-2D	not listed
07	7w 1	Low	Low			0	not listed
07	8e 1	Very High	Very High	Foredunes		5W	5W

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
07	8e 2	Very High	High	Steep sandstone -stable rock type. Mapped 3Ss 3Da, PES variable in different suites	3Ss, 3Da	3-4Ss, 2G, 2Sh	suite 9 3Ss 2G, suite10, 4Ss, 2Sh, 2G; suite 11, 3-4Ss, 2Sh, 1G
07	8e 3	Very High	High	Mudstone. Mapped 3Ss, PES 2-3Ss	3Ss	2-3Ss, 2Sh, 2G	2-3Ss, 2Sh, 2G
07	8e 4	Very High	Very High		3G	4Sb, 4G, 2Sh, 2W	4Sb, 4G, 2Sh, 2W
07	8e 4+4e 5	Very High	Very High				
07	8e 4+4s 2	Very High	Very High		1G		
07	8e 4+7e16	Very High	Very High		2G		
07	8e 5	Very High	High	Gw with patchy tephra, high rainfall. Mapped 2Da, PES 4-5 considered an overestimate	2Da	4-5Ss, 3-4Sc, 2G	4-5Ss, 2G, 2W
07	8e 6	Very High	Very High	Gw. More erodible than 8e5, crush zones and high rainfall	4Da	5Ss, 4Sc, 3G	5Ss, 2G, 2W
07	8e 7	Very High	High	Mapped 1Ss, PES 3Ss	1Ss	4Sh, 4W, 3Ss, 2G	4Sh, 4W, 2G, 2Ss
07	8e 8	Very High	High	Mapped 3Da, PES 5Da considered an overestimate	3Da	5Sc, 5Da, 4Sh, 4W, 3G	5Sc, 4Sh, 4W, 3G, 3Da
07	8e 9	Very High	High	Gw. Mapped 3G, PES 3G 3Da	3G	5Sh, 5W, 5Sc, 3Da, 3G	5Sh, 5W, 5Sc, 3G
07	8e 10	Very High	Low	Above treeline. Mapped 1G, PES Sh/W/Sc	1G	5Sh, 5W, 4Sc	5Sh, 5W, 4Sc
07	8e 11	Very High	Low	Above treeline. Mapped 0 mass movement, PES Sh/W/Sc		5Sh, 5W, 4Sc, 1G	5Sh, 5W, 4Sc
07	8s 1	Low	Low		1Da	1Da, 1Sh	not listed
08	1c 1	Low	Low			0	0
08	1w 1	Low	Low			0	not listed
08	2c 1	Low	Low			0-1W when cultivated	not listed
08	2s 1	Low	Low			1W when cultivated	1W when cultivated

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	2s 1+7e 4	High	High		1Ss		
08	2w 1	Low	Low		1Sb	not listed	
08	3e 1	Low	Low		2-3W, 1Sh, 1R when cultivated	2-3W when cultivated	
08	3e 2	Low	Low		2Sh, 2R, 2W when cultivated	2Sh, 2R, 2W when cultivated	
08	3e 2+6e 4	Moderate	Moderate		1Ss		
08	3e 2+7e 4	High	High		1Ss		
08	3e 3	Low	Low		1G	2Sh, 2R when cultivated	2Sh, 2R when cultivated
08	3e 3+4e 3	Low	Low		1Ss, 1Ef		
08	3s 1	Low	Low			1W when cultivated	1W when cultivated
08	3s 1+7e 3	Moderate	Moderate		2Ss		
08	3s 2	Low	Low		1Ss	2W when cultivated	not listed
08	3s 2+6s 4	Low	Low				
08	3s 2+7e 2	High	High		1Ss		
08	3s 2+7e 4	High	High		1Ss		
08	3s 3	Low	Low		1G	1Sb	1Sb
08	3s 3+4e 3	Low	Low				
08	3s 3+7e 1	High	High		2Ss, 2Ef		
08	3s 3+7e 2	High	High		1Ss		
08	3s 3+7e 4	High	High		2Ss		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	3s 4	Low	Low		1G	2W when cultivated	2W when cultivated
08	3w 1	Low	Low			1Sb, 1D	1Sb, 1D
08	3w 1+3s 3	Low	Low				
08	3w 1+7e 2	High	High		2Ss		
08	3w 2	Low	Low			0	not listed
08	3w 2+7e 4	High	High		1Ss		
08	4e 1	Low	Low		1Ss	3Sh, 3R, 2-3W when cultivated	3Sh, 3R, 2-3W when cultivated
08	4e 1+8e 1	Very High	Very High		3Ss		
08	4e 2	Low	Low		1Ss, 1T	3Sh, 3R, 2W when cultivated	0, [3Sh, 3R, 2W when cultivated]
08	4e 3	Low	Low		1Ef, 1Ss, 1G	1Ef, [3Sh, 3R when cultivated]	1Ef, [3Sh, 3R when cultivated]
08	4e 3+3s 3	Low	Low				
08	4e 3+3w 1	Low	Low		1Ef		
08	4e 4	Low	Low		1Ss	3Sh, 3R when cultivated	3Sh, 3R when cultivated
08	4e 5	Low	Low		1Ef	3Sh, 3R, 2W when cultivated	not listed
08	4s 1	Low	Low			0	not listed
08	4s 1+7e 4	High	High				
08	4w 1	Low	Low			0	not listed
08	5c 1	Low	Low		1Ss, 1T	1Sh	1Sh

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	5s 1	Low	Low		1Ss	0	0
08	6c 1	Low	Low		1G	1Sh	1Sh
08	6c 2	Low	Low			1Sh	not listed
08	6e 1	Low	Moderate	PES 2Ss; 2T, 2Ef mapped. Correlated with leg9 6e1 (Moderate)	2T, 2Ef	2Ss, 1T	not listed
08	6e 2	Low	Moderate	2Ef mapped, PES 2Ef. Correlated with leg2 6e9 (Moderate), leg 6 6e2 (Moderate)	2Ef	2Ef, 1Ss	2Ef, 1Ss
08	6e 3	Low	Moderate	2Ef, 2Ss mapped, PES 2Ef	2Ef, 2Ss	2Ef, 2Sh, 1Ss	2Ef, 2Sh, 1Ss
08	6e 4	Moderate	Moderate		2Ss, 2T	2Ss, 1T, 1Sh	2-3Ss, 1T, 1Sh
08	6e 5	Moderate	Moderate		2Ss, 2G	2Ss, 2Sh, 1G	not listed
08	6e 6	Low	Low		1Ss	2W, 1Ss	not listed
08	6e 7	Moderate	Moderate		2Ef, 2Ss, 2G	2Ef, 2Ss	2Ef, 2Ss
08	6e 8	Moderate	Moderate		3Ss	2Ef, 2Ss, 1Sh	2Ef, 2Ss, 1Sh
08	6e 9	Moderate	Moderate		3Ss	2Ss, 2T, 1G, 1Sh	not listed
08	6e 10	High	Moderate	Correlated with leg2 6e19 (Moderate), leg6 6e9 (Moderate), leg7 6e10 (Moderate), leg10 6e19 and 6e20 (Moderate) so downrated to Moderate despite 3Ef mapped	3Ef	3Ef	3Ef
08	6e 11	Moderate	Low	Greywacke. Only 1Ss 1G mapped. PES considered too high	1G, 1Ss	2Sh, 2Sc, 2Ss	2Sh, 2Sc, 2Ss
08	6e11+2s 1	Moderate	Low		1Ss		
08	6e 12	High	High		2Ef, 2Ss	3Ef, 2Ss, 2G, 1Sh	not listed

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	6e 13	Moderate	Moderate		2G	2Sh, 2Ss, 2G, 1W	2Sh, 2Ss, 2G, 1W
08	6e 14	Low	Low			2W	2W
08	6s 1	Low	Low		1Ss, 1G, 1T	1Sh	1Sh
08	6s 1+3e 1	Low	Low				
08	6s 2	Low	Low		1Ss, 1T	1Sh, 1Ss	not listed
08	6s 3	Low	Low		2Ss	1Sh, 1Sc	not listed
08	6s 3+6e12	High	High		1Ef		
08	6s 4	Low	Low			0	not listed
08	6s 5	Low	Low			1W	not listed
08	6w 1	Low	Low			0	not listed
08	7e 1	High	High		3Ef, 3Ss	3Ef, 2Ss, 1G	3Ef, 2Ss, 1G
08	7e 1+7e 8	Very High	Very High		3Ef		
08	7e 2	High	High		3Ss, 3Ef	3Ss, 2Sh, 1Ef, 1G	3Ss, 2Sh, 1Ef, 1G
08	7e 2+3w 1	High	High		1Ss		
08	7e 3	Moderate	Moderate		2Ss	2Ss, 2Sh, 1G	2Ss, 2Sh
08	7e 4	High	High		4Ss	3Ss, 2Sh, 1T	3Ss, 2Sh, 1T
08	7e 5	Moderate	Moderate	Gw	1Ss, 1G	2Sh, 2Sc, 2Ss	not listed
08	7e 6	Very High	Very High		4Ef	4Ef, 2G, 1Ss	4Ef, 2G, 1Ss
08	7e 6+7e 5	Very High	Very High		2Ef		
08	7e 7	High	High		3Ef	4Ef, 3W, 2G	not listed

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	7e 8	Very High	Very High		5Ef	5Ef, 2G, 1Ss	5Ef, 2G, 1Ss
08	7e 8+6e10	Very High	Very High		2Ef		
08	7e 9	Very High	High	Only 3Su mapped, large deep seated features, present extent is likely maximum extent	3Su	4Su, 2Ss	not listed
08	7e 9+4s 1	Very High	High		2Ss		
08	7e 10	High	Moderate	Gw. PES considered too high. Correlated with leg5 7e2 (downrated to Moderate), leg6 7e11 (rated as High but regional difference), leg9 7e2 (downrated to Moderate), leg10 7e10 (downrated to Moderate)	3G	3Sh, 3W, 3Sc, 3Ss, 2G, 2Da	not listed
08	7e10+3s 2	High	Moderate		1Da		
08	7e 11	Moderate	Moderate		3Ef	3W, 3Sc, 2G, 2Sh, 1Ss	3W, 3Sc
08	7e 12	Very High	Very High		4Ss	4Sh, 4W, 4Ss, 2G	4Sh, 4W, 4Ss, 2G
08	7e12+3s 4	Very High	Very High		1Ss		
08	7e 13	Very High	Very High		4G	5G, 2Ef, 2Ss	not listed
08	7e 14	Low	Low		1Ef	5W	5W
08	7s 1	Low	Low		1G	2D	not listed
08	7s 2	Low	Low		2Ss	1Ss	1Ss
08	8e 1	Very High	Very High		3G 2Ss	4Ss, 3G	not listed
08	8e 1+2w 1	Very High	Very High		1Ss		
08	8e 1+3s 2	Very High	Very High		2Ss		
08	8e 2	Very High	Very High		3G	3Ss, 3G, 2Sh	3Ss, 3G, 2Sh
08	8e 3	Very High	Very High		5Su 4Ef 4G	5Su, 5Ef, 5G, 4Ss, 4Sh	not listed

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
08	8e 4	Very High	Very High	Foredunes	1G	5W	5W
08	8e 5	Very High	High	Gw, PES considered too high	2Da, 2Ss	4Da, 4Ss, 4Sc, 4Sh, 2G	not listed
08	8e 6	Very High	Very High	Gw with crush zones, more erodible	4Da	5Da, 5Sc, 3Sh, 3G	not listed
08	8e 7	Very High	High	Gw, PES 3G, wind and sheet erosion prone	4G	5Sc, 5Sh, 5W, 3G, 2Da	not listed
08	8e 8	Very High	High	Gw, above treeline (grassland), PES rated 2 classes higher than actual erosion	2Da	5Sc, 4Da, 4Sh, 4W	not listed
09	1c 1	Low	Low			no extended legend	0
09	1c 1+6e 1	Low	Moderate			no extended legend	
09	1s 1	Low	Low			no extended legend	0
09	1s 1+2s 1	Low	Low			no extended legend	
09	1s 1+4s 1	Low	Low			no extended legend	
09	1w 1	Low	Low			no extended legend	0
09	2c 1	Low	Low			no extended legend	0
09	2c 1+6e 1	Low	Moderate		1Ss	no extended legend	
09	2e 1	Low	Low			no extended legend	1Sh, 1R when cultivated
09	2e 1+6e 1	Low	Moderate			no extended legend	
09	2s 1	Low	Low			no extended legend	1Sb
09	2s 1+2w 1	Low	Low			no extended legend	
09	2s 1+4s 1	Low	Low			no extended legend	
09	2s 2	Low	Low			no extended legend	1W when cultivated
09	2s 3	Low	Low			no extended legend	0

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
09	2s 3+3s 2	Low	Low			no extended legend	
09	2s 3+3w 1	Low	Low			no extended legend	
09	2w 1	Low	Low			no extended legend	1Sb
09	2w 2	Low	Low			no extended legend	0
09	3c 1	Low	Low			no extended legend	0
09	3e 1	Low	Low			no extended legend	2Sh 2R when cultivated
09	3e 2	Low	Low			no extended legend	2Sh, 2R 2W when cultivated
09	3e 2+2c 1	Low	Low			no extended legend	
09	3e 3	Low	Low			no extended legend	1-2Sh, 1-2R when cultivated
09	3e 3+2c 1	Low	Low			no extended legend	
09	3e 3+3s 4	Low	Low			no extended legend	
09	3e 3+6e 1	Low	Moderate		1Ss	no extended legend	
09	3s 1	Low	Low			no extended legend	1-2Sb [1W when cultivated]
09	3s 1+4s 1	Low	Low			no extended legend	
09	3s 2	Low	Low			no extended legend	0
09	3s 2+2s 1	Low	Low			no extended legend	
09	3s 2+3w 1	Low	Low			no extended legend	
09	3s 3	Low	Low			no extended legend	1Sh 1R when cultivated

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
09	3s 4	Low	Low		no extended legend	0
09	3s 4+1s 1	Low	Low		no extended legend	
09	3s 4+6e 1	Low	Moderate		no extended legend	
09	3w 1	Low	Low		no extended legend	1-2Sb
09	3w 1+2s 3	Low	Low		no extended legend	
09	3w 1+4e 2	Low	Low		no extended legend	
09	3w 1+7e 3	Low	Low		no extended legend	
09	3w 2	Low	Low		no extended legend	0
09	3w 2+6s 5	Low	Low		no extended legend	
09	3w 3	Low	Low		no extended legend	0
09	3w 3+6e 5	Low	Low		no extended legend	
09	3w 3+6s 4	Low	Low		no extended legend	
09	3w 3+6s 5	Low	Low		no extended legend	
09	4c 1	Low	Low		no extended legend	0
09	4e 1	Low	Low		no extended legend	2-3Sh, 2-3R when cultivated
09	4e 1+3s 2	Low	Low		no extended legend	
09	4e 1+4s 2	Low	Low		no extended legend	
09	4e 2	Low	Low		no extended legend	2-3Sh, 2-3R when cultivated
09	4e 2+6e 1	Low	Moderate	1Ss, 1T	no extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
09	4e 3	Low	Low			no extended legend	3Sh, 3R, 2W when cultivated
09	4e 4	Low	Low			no extended legend	3W when cultivated
09	4e 4+6s 5	Low	Low			no extended legend	
09	4e 5	Low	Low			no extended legend	2Sh, 2R, 2W when cultivated
09	4s 1	Low	Low			no extended legend	2Sb, 2D
09	4s 2	Low	Low		1G	no extended legend	0
09	4s 2+4e 1	Low	Low			no extended legend	
09	4s 2+8e 3	Very High	High			no extended legend	
09	4w 1	Low	Low			no extended legend	2-3Sb, 2D
09	4w 1+4e 1	Low	Low			no extended legend	
09	4w 2	Low	Low			no extended legend	1Sb, 1D
09	4w 3	Low	Low			no extended legend	0
09	4w 3+6s 5	Low	Low			no extended legend	
09	6c 1	Low	Low			no extended legend	1Sh
09	6c 1+6e 6	Low	Low			no extended legend	
09	6c 1+6e 8	Low	Low			no extended legend	
09	6c 2	Low	Low			no extended legend	1Sh, 1W
09	6c 3	Low	Low			no extended legend	1W, 1D
09	6c 3+4s 2	Low	Low			no extended legend	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
09	6e 1	Low	Moderate	2Ss mapped, PES 2Ss, correlated with Leg 8 6e1 (Moderate)	2Ss	no extended legend	2Ss, 2Sh, 1T
09	6e 1+3e 3	Low	Moderate		1Ss, 1T	no extended legend	
09	6e 1+3s 4	Low	Moderate		1Ss	no extended legend	
09	6e 1+4e 2	Low	Moderate		1Ss	no extended legend	
09	6e 2	Moderate	Moderate		1Ss	no extended legend	2Ss, 1Sh
09	6e 3	Low	Low	Gw. 2Ss mapped, PES 2 but considered an overestimate for greywacke terrain on moderate slopes (E, D)	2Ss	no extended legend	2Ss, 1Sh, 1T
09	6e 4	Low	Low		1Ss, 1T	no extended legend	2Ss, 2Sh, 1T, 1G
09	6e 5	Low	Low			no extended legend	2W
09	6e 5+3w 2	Low	Low			no extended legend	
09	6e 5+4e 4	Low	Low			no extended legend	
09	6e 5+4w 3	Low	Low			no extended legend	
09	6e 6	Low	Low	Gw. Mapped 2Ss, PES 2Ss but considered too high for greywacke terrain on moderate slopes (E, F)	2Ss	no extended legend	2Ss, 1Sh
09	6e 7	Moderate	Low	Gw. Mapped 1Ss, PES 2Ss but considered an overestimate	1Ss	no extended legend	2Ss, 1Sh
09	6e 8	Low	Low	Gw, PES rated as 2Ss but considered too high for greywacke terrain on moderate slopes (E, F)	1Ss, 1Da	no extended legend	2Ss, 1Sh, 1Sc
09	6e 8+6c 1	Low	Low			no extended legend	
09	6e 9	Low	Low	PES rated as 2Ss but considered too high for greywacke terrain on moderate slopes (E, F)	1Ss, 1G	no extended legend	2Ss, 2Sh, 1W, 1Sc

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
09	6e 9+8e 2	Very High	High			no extended legend	
09	6e 10	Moderate	Moderate	Gw, high rainfall (>1800 mm). 2Da mapped	2Da	no extended legend	2Ss, 1Sh, 1Sc
09	6s 1	Low	Low		1Ss, 1G, 1T	no extended legend	1Ss, 1Sh
09	6s 1+6e 2	Moderate	Moderate		1G	no extended legend	
09	6s 2	Low	Low			no extended legend	1Sh, 1G
09	6s 3	Low	Low		1G	no extended legend	1G, 1D
09	6s 4	Low	Low			no extended legend	1W
09	6s 4+7e 3	Low	Low			no extended legend	
09	6s 5	Low	Low			no extended legend	1W
09	6s 5+3w 2	Low	Low			no extended legend	
09	6s 5+4e 4	Low	Low			no extended legend	
09	6s 5+4w 3	Low	Low			no extended legend	
09	6s 5+6e 5	Low	Low			no extended legend	
09	6s 6	Low	Low	Gw		no extended legend	1Sh, 1Ss
09	6s 7	Low	Low			no extended legend	2Sb, 2D
09	6s 7+3s 1	Low	Low			no extended legend	
09	6w 1	Low	Low			no extended legend	0
09	7c 1	Low	Low			no extended legend	1Sh, 1W, 1Ss
09	7e 1	Moderate	Moderate		1Ss	no extended legend	2Sc, 2Sh, 2Ss
09	7e 2	Moderate	Moderate	Gw	2Da, 2G	no extended legend	2-3Ss, 2-3Sc, 2Sh, 1G

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
09	7e 3	Low	Low			no extended legend	4-5W
09	7e 3+6s 4	Low	Low			no extended legend	
09	7e 4	High	Moderate	Gw. PES 3G considered an overestimate	3G	no extended legend	3Sc, 3Sh, 3W, 3G, 2Ss
09	7e 4+8e 2	Very High	High		1G	no extended legend	
09	7e 5	Moderate	High	Gw. PES 3Ss, high rainfall	2Da, 2Ss	no extended legend	3Ss, 3Sc, 2G, 2Sh
09	7s 1	Low	Low			no extended legend	1Sc, 1Sh, 1Ss
09	7s 2	Low	Low			no extended legend	3Sb, 3D
09	7s 3	Low	Low			no extended legend	2D, 1W
09	7w 1	Low	Low			no extended legend	0
09	7w 2	Low	Low			no extended legend	0
09	8e 1	Very High	Very High	Foredunes		no extended legend	5W
09	8e 2	Very High	High	Gw. PES 3G, only 2G mapped	2G	no extended legend	3Sc, 3G, 2Sh, 2W
09	8e 3	Very High	High	Gw. PES considered too high	2G, 2Da	no extended legend	4-5Ss/Da, 3Sc, 3Sh, 3W, 2G
09	8e 4	Very High	High	Gw. PES considered too high	4G	no extended legend	5Sc, 4G, 4Sh, 4W, 3Ss/Da
09	8e 5	Very High	Very High	Gw, high rainfall	3Da	no extended legend	5Sh, 5W, 4Sc, 4Ss/Da, 3G
09	8s 1	Low	Low			no extended legend	3D, 1W
09	8s 1+7s 3	Low	Low			no extended legend	
10	1c 1	Low	Low		0	not listed	
10	1c 1+3s 1	Low	Low				
10	1c 1+5s 1	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	1c 2	Low	Low	0	0	
10	1c 3	Low	Low	0	not listed	
10	1c 3+3w 4	Low	Low			
10	1w 1	Low	Low	0	not listed	
10	1w 1+4s 2	Low	Low			
10	1w 2	Low	Low	0	not listed	
10	2c 1	Low	Low	0	not listed	
10	2c 1+3s 2	Low	Low			
10	2c 1+4e 3	Low	Low			
10	2c 1+8e 3	Very High	Very High	1Ss		
10	2c 2	Low	Low		1W [when cultivated]	not listed
10	2c 3	Low	Low	0	not listed	
10	2c 3+3e 2	Low	Low			
10	2c 3+3s 1	Low	Low			
10	2c 3+3w 5	Low	Low			
10	2c 3+4e 2	Low	Low			
10	2c 3+4e 3	Low	Low			
10	2c 3+5c 1	Low	Low			
10	2c 3+6e 1	Low	Low			
10	2e 1	Low	Low		1Sh, 1R [when cultivated]	not listed

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	2e 1+3e 2	Low	Low			
10	2e 1+3w 5	Low	Low			
10	2e 2	Low	Low		1Sh, 1R when cultivated	1Sh, 1R when cultivated
10	2e 2+6e 2	Moderate	Low			
10	2s 1	Low	Low		1Sb	not listed
10	2s 2	Low	Low		0	not listed
10	2s 2+3e 4	Low	Low			
10	2s 2+6e14	Moderate	Moderate		1Ss	
10	2s 2+7e 3	High	High		1Ss	
10	2s 3	Low	Low		0	0
10	2s 3+5s 1	Low	Low			
10	2s 4	Low	Low		0	not listed
10	2s 5	Low	Low		0	not listed
10	2w 1	Low	Low		2Sb	not listed
10	2w 2	Low	Low		0-1Sb	not listed
10	2w 2+7e 6	Very High	High		2Ef	
10	2w 2+8e 3	Very High	Very High		2Ss	
10	2w 3	Low	Low		0	not listed
10	2w 4	Low	Low		0	not listed
10	3c 1	Low	Low		0	not listed

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	3c 1+4e 6	Low	Low			
10	3c 1+6e 6	Moderate	Moderate			
10	3c 2	Low	Low	0	not listed	
10	3c 3	Low	Low	1W when cultivated	1W when cultivated	
10	3c 4	Low	Low	0	not listed	
10	3c 4+3e 6	Low	Low			
10	3c 4+3w 5	Low	Low			
10	3c 4+4e 7	Low	Low			
10	3c 4+4s 1	Low	Low			
10	3c 4+5c 1	Low	Low			
10	3c 4+6e 6	Moderate	Moderate	1Ss		
10	3e 1	Low	Low	1-2Sh, 1-2R, [when cultivated]	1-2Sh, 1-2R, [when cultivated]	
10	3e 1+6e 3	Moderate	Moderate			
10	3e 2	Low	Low	1-2Sh, 1-2R [when cultivated]	1-2Sh, 1-2R [when cultivated]	
10	3e 2+3w 5	Low	Low			
10	3e 2+5c 1	Low	Low			
10	3e 2+6s 6	Low	Low			
10	3e 3	Low	Low	1G	1-2Sh, 1-2R when cultivated	1-2Sh, 1-2R when cultivated

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	3e 4	Low	Low		1Ef	1-2Sh, 1-2R when cultivated	1-2Sh, 1-2R when cultivated
10	3e 4+6e 3	Moderate	Moderate				
10	3e 4+6e14	Moderate	Moderate				
10	3e 4+8e 3	Very High	Very High		2Ss		
10	3e 5	Low	Low			1-2Sh, 1-2R [PE when cultivated]	0
10	3e 5+8e 3	Very High	Very High		1Ss		
10	3e 6	Low	Low			2Sh, 2R [when cultivated]	1-2Sh, 1-2R [PE when cultivated]
10	3e 6+6e 6	Moderate	Moderate		1Ss		
10	3e 7	Low	Low			1Sh, 1G, 1T [2Sh, 2R, 2G when cultivated]	1Sh, 1G, 1T [2Sh, 2R, 2G when cultivated]
10	3e 7+6w 1	Moderate	Low				
10	3e 8	Low	Low		1G, 1T	0-1G, 0-1Sb [2Sh, 2R, 2G when cultivated]	0-1G, 0-1Sb [2Sh, 2R, 2G when cultivated]
10	3e 8+8e 2	Very High	Very High		1G		
10	3s 1	Low	Low			1Sb	not listed
10	3s 1+2c 3	Low	Low				
10	3s 1+6e 1	Low	Low				
10	3s 1+6s 6	Low	Low				
10	3s 2	Low	Low		0		not listed

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	3s 2+8e 3	Very High	Very High		1Ss		
10	3s 3	Low	Low		0	0	
10	3s 3+5s 1	Low	Low				
10	3s 4	Low	Low		0	0	
10	3s 5	Low	Low		0	not listed	
10	3s 5+6s 3	Low	Low				
10	3s 5+6s 5	Low	Low				
10	3s 6	Low	Low		1G	not listed	
10	3s 6+4w 1	Low	Low				
10	3s 6+6e26	High	Moderate				
10	3s 6+7e19	Very High	High		1Ss		
10	3s 6+8e 2	Very High	Very High		2G		
10	3w 1	Low	Low		0-1Sb	not listed	
10	3w 2	Low	Low		1-2Sb	1Sh, 1R	
10	3w 2+8e 3	Very High	Very High				
10	3w 3	Low	Low		0	not listed	
10	3w 4	Low	Low		0	0	
10	3w 4+6e24	Low	Low				
10	3w 4+7e15	Low	Low				
10	3w 5	Low	Low		0	not listed	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	3w 5+4e 2	Low	Low			
10	3w 5+5s 1	Low	Low			
10	4c 1	Low	Low	0	not listed	
10	4c 1+6e 7	Moderate	Moderate			
10	4c 2	Low	Low	1Sh, 1W [2Sh, 2R when cultivated]	1-2W, 1-2Sh, 1-2R when cultivated	
10	4c 2+6e27	Moderate	Moderate			
10	4c 3	Low	Low	1Sh, 1R [when cultivated]		
10	4c 3+5c 1	Low	Low			
10	4c 3+5s 1	Low	Low			
10	4c 3+6s 3	Low	Low			
10	4c 4	Low	Low	1W, 1Sh when cultivated	not listed	
10	4c 4+6w 1	Moderate	Low			
10	4e 1	Low	Low	1G, 1Ef	3Sh, 3R [when cultivated]	3Sh, 3R [when cultivated]
10	4e 1+6s 1	Low	Low			
10	4e 2	Low	Low	2-3Sh, 2-3R [when cultivated]	2-3Sh, 2-3R [when cultivated]	
10	4e 2+2c 3	Low	Low			
10	4e 2+3w 5	Low	Low			
10	4e 2+5c 1	Low	Low			
10	4e 2+6e 1	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	4e 2+6e21	Moderate	Moderate	1Ss		
10	4e 3	Low	Low		2-3Sh, 2-3R when cultivated	3Sh, 3R when cultivated
10	4e 4	Low	Low	1Ef, 1G	2-3Sh, 2-3R when cultivated	2-3Sh, 2-3R when cultivated
10	4e 5	Low	Low		3Sh, 3R when cultivated	3Sh, 3R when cultivated
10	4e 5+6e17	Moderate	Moderate	1Ss		
10	4e 5+6s 2	Low	Low			
10	4e 6	Low	Low	1Ef, 1G	3Sh, 3R, [PE when cultivated]	0
10	4e 6+6e 3	Moderate	Moderate			
10	4e 6+6e23	Moderate	Moderate			
10	4e 7	Low	Low		3Sh, 3R [when cultivated]	2-3Sh, 2-3R [when cultivated]
10	4e 7+4c 3	Low	Low			
10	4e 7+5c 1	Low	Low			
10	4e 8	Low	Low	1Ef, 1Su	1-2Su, 1-2Ef, 1-2G [3Sh, 3R when cultivated]	1-2Su, 1-2Ef, 1-2G [2-3Sh, 2-3R when cultivated]
10	4e 8+6e20	Moderate	Moderate	1Ef, 1G		
10	4e 8+7e 2	High	High	1Ef, 1Ss		
10	4e 9	Low	Low	1G	3Sh, 3R, 3G when cultivated	3Sh, 3R, 3G when cultivated

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	4e 9+6s 5	Low	Low			
10	4e 10	Low	Low		0-1W, [3W when cultivated]	0-1W, [3W when cultivated]
10	4e10+6e24	Low	Low			
10	4e10+6s 4	Low	Low			
10	4e10+7e15	Low	Low			
10	4e 11	Low	Low	1G	0-1G, 0-1Sh [3G, 3Sh, 3R when cultivated]	3Sh, 3R, 3G when cultivated
10	4e 12	Low	Low		3W, 3Sh, 3R when cultivated	3W, 3Sh, 3R when cultivated
10	4e12+3c 3	Low	Low			
10	4e12+6c 3	Low	Low			
10	4e12+6e27	Moderate	Moderate	1Ss		
10	4e 13	Low	Low	1G	1Sb, 1G [3R, 3Sh, 3G when cultivated]	1Sh, 1Sb, 1G when cultivated
10	4e 14	Low	Low	1G	1-2Sh, 1-2G [3Sh, 3R, 3G when cultivated]	1Sh, 1Sb, 1G when cultivated
10	4e14+6w 1	Moderate	Low			
10	4s 1	Low	Low		0 [2Sh, 2R when cultivated]	2Sh, 2R when cultivated
10	4s 1+3s 1	Low	Low			
10	4s 1+6s 6	Low	Low			

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	4s 2	Low	Low		1Sb	not listed	
10	4s 3	Low	Low		1Sh when cultivated	1Sh when cultivated	
10	4w 1	Low	Low		2Ss	2Sb	not listed
10	4w 1+3e 1	Low	Low				
10	4w 1+7e15	Low	Low				
10	4w 2	Low	Low		1Sb	not listed	
10	4w 3	Low	Low		0	not listed	
10	4w 4	Low	Low		0	not listed	
10	5c 1	Low	Low		1Ss	0-1Sh	1Sh, 1Ss [5Sh, 5R when cultivated]
10	5c 1+2c 3	Low	Low				
10	5c 1+2e 1	Low	Low				
10	5c 1+3c 4	Low	Low				
10	5c 1+3e 2	Low	Low				
10	5c 1+3w 2	Low	Low				
10	5c 1+3w 3	Low	Low				
10	5c 1+3w 5	Low	Low				
10	5c 1+4e 2	Low	Low				
10	5s 1	Low	Low		0-1Sh	1Sh	
10	5s 1+2c 2	Low	Low				
10	5s 1+2s 3	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	5s 1+3w 1	Low	Low				
10	5s 1+3w 5	Low	Low				
10	5s 2	Low	Low		0-1Sh	1Sh	
10	6c 1	Low	Low		1Ss, 1Ef	1Ss, 1Sh	1Ss, 1Sh
10	6c 1+3c 1	Low	Low				
10	6c 1+3w 2	Low	Low				
10	6c 2	Low	Low		1Ss, 1Ef	1Sh, 1Ss	1Ss, 1Sh
10	6c 3	Low	Low			1Sh, 1W	1Sh, 1W
10	6c 3+4e12	Low	Low				
10	6c 3+7e13	High	High				
10	6c 4	Low	Low				1W, 1Sh when cultivated
10	6c 4+6e26	High	Moderate				
10	6c 4+6w 1	Moderate	Low				
10	6c 5	Low	Low		0	not listed	
10	6e 1	Low	Low		2Ss	2Ss, 2Es, 2Sh	not listed
10	6e 1+3e 6	Low	Low				
10	6e 1+4s 1	Low	Low				
10	6e 1+6s 6	Low	Low				
10	6e 2	Moderate	Low	PES 1Ss, 1Ss mapped	1Ss, 1Ef	1Sh, 1Ss	1Sh, 1Ss
10	6e 2+2s 2	Moderate	Low		1Ss		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	6e 3	Moderate	Moderate	2Ef, 2G, 2Ss	2Ef, 2Ss, 1Sh, 1G	2Ss, 2Ef, 1G, 1Sh
10	6e 3+3c 4	Moderate	Moderate			
10	6e 3+4e 4	Moderate	Moderate	1G		
10	6e 3+4e 6	Moderate	Moderate	2Ef, 2G, 2Ss		
10	6e 4	Low	Moderate	2Ss 2Ef mapped, PES 2Ss, correlated to leg7 6e3 (Moderate), leg8 6e8 (Moderate)	2Ef, 2Ss	2Sh, 2Ss, 2Ef, 1T
10	6e 4+4e 4	Low	Moderate			2Ss, 1T, 1Ef, 1Sh
10	6e 5	Moderate	Moderate	2Ss	2Ss, 1Sh, 1G	2Ss, 1Sh, 1G
10	6e 6	Moderate	Moderate	1Ss, 1Es	2Ss, 2Es	2Ss, 2Es
10	6e 6+3c 4	Moderate	Moderate	1Ss		
10	6e 6+3e 6	Moderate	Moderate	1Ss		
10	6e 6+4e 7	Moderate	Moderate	1Ss, 1Su		
10	6e 6+5c 1	Moderate	Moderate			
10	6e 6+6s 6	Moderate	Moderate			
10	6e 7	Moderate	Moderate	2Ss	2Ss, 2Sh, 1Ef, 1G	2Ss, 2Sh, 1Ef, 1G
10	6e 8	Moderate	Moderate	2Ef, 2Ss	2Ss, 2Sh, 1Ef	2Ss, 2Sh, 1Ef
10	6e 9	Moderate	Moderate	1Ss	2Ss	2Ss
10	6e 10	Moderate	Moderate	2Ss	2Ss, 1Sh, 1G	
10	6e10+4e 7	Moderate	Moderate	1Ss	2Ss, 1Sh	2Ss, 1Sh
10	6e 11	Moderate	Moderate	2Ef	2Sh 2Ss, 2Su, 2Ef, 2T	2Ss, 2Sh, 2T, 2Ef, 2Su
10	6e 12	Moderate	Moderate	2Ef	2Sh, 2Ss, 2T	2Ss, 2Sh, 2T

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	6e12+4e 3	Moderate	Moderate		1Ss		
10	6e 13	Moderate	Moderate		2Ss	2Ss, 1Sh, 1T	2Ss, 1Sh, 1T
10	6e 14	Moderate	Moderate		2Ss	2Ss, 1Sh, 1T	2Ss, 2Sh, 2T
10	6e 15	Moderate	Moderate		2Ss	2Ss, 2Sh, 1T	2Ss, 2Sh, 1T
10	6e 16	Low	Low	Gw	1Ss	2Ss, 1Sh	2Ss, 2Sh
10	6e 17	Moderate	Moderate		2Ss, 2Da	2Ss, 2Sh	2Ss, 2Sh, 2Da
10	6e17+4e 7	Moderate	Moderate				
10	6e17+4w 1	Moderate	Moderate				
10	6e 18	Low	Moderate	Deep Taupo airfall tephra, 2Ss 2Da mapped, correlated with leg4 6e9, 6e18 (both Moderate)	2Ss, 2Da	2Sh	not listed
10	6e18+4e 9	Low	Moderate				
10	6e 19	Moderate	Moderate		2Su, 2Ef, 2G	2Ef, 2Su, 2G, 1Ss	not listed
10	6e 20	Moderate	Moderate		4Ss	2Ef, 2Su, 2G, 1Ss	not listed
10	6e20+4e 1	Moderate	Moderate				
10	6e 21	Moderate	Moderate		2Ef, 2Ss	2Ss, 2Sh, 2Ef	2Ss, 2Sh, 2Ef
10	6e21+4e 7	Moderate	Moderate		1Ss, 1Ef		
10	6e21+4e 8	Moderate	Moderate		1Ef, 1Ss		
10	6e21+4w 1	Moderate	Moderate		1Ss		
10	6e 22	Low	Low		1Ss	1Ss	1-2Ss, 1-2Sh
10	6e 23	Moderate	Moderate		2Ss	2Ss, 1Sh	2Ss, 1Da, 1Sh
10	6e23+3c 4	Moderate	Moderate		1Ss		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	6e 24	Low	Low			2W	2W
10	6e24+2w 4	Low	Low				
10	6e24+3w 4	Low	Low				
10	6e24+4e10	Low	Low				
10	6e24+7e15	Low	Low				
10	6e 25	Low	Moderate	PES 2Ss, 3000 -5000 mm rainfall	1Ss	2Ss	2Ss
10	6e25+4e 2	Low	Moderate				
10	6e 26	High	Moderate	2G mapped, PES 2-3, gully-prone flow tephra issue. Correlated with leg4 6e24 (Moderate)	2G	2-3G, 2Sb, 2Sh	2-3G, 2Sb, 2Sh
10	6e 27	Moderate	Moderate		2Ss	2W, 2Sh, 2Ss	2W, 2Sh, 2Ss
10	6e27+4c 2	Moderate	Moderate		2Ss		
10	6e27+4e12	Moderate	Moderate				
10	6s 1	Low	Low		1Ss	1Ss, 1Sh	not listed
10	6s 2	Low	Low		1Ss	1Ss	1Ss, 1Sh
10	6s 3	Low	Low			0-1Sh	not listed
10	6s 3+3s 5	Low	Low				
10	6s 4	Low	Low			1W	1W
10	6s 4+7e15	Low	Low				
10	6s 5	Low	Low		1G, 1Ss	1Sh	1Sh
10	6s 6	Low	Low			1Sb	not listed
10	6s 6+3s 1	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
10	6s 6+4s 1	Low	Low			
10	6s 6+6e 1	Low	Low			
10	6s 7	Low	Low		1Sb	not listed
10	6s 7+7e 9	High	High		1Sb	
10	6s 8	Low	Low		1Ss, 1G	1Sh
10	6s 8+8s 1	Very High	High	No 8s1 unit in TMU. Soil is ManS which gets mapped as LUC units 7e8 and 8e4. Polygon has G slope subdominant so probably meant to be 8e4 (High ESC)		
10	6w 1	Moderate	Low	PES 2G when drained, no G mapped	2G, 2Sb	not listed
10	6w 1+4e14	Moderate	Low			
10	7c 1	Low	Low		1Ss	1W, 1Sh
10	7c 1+8w 1	High	Low			
10	7e 1	High	High		3Ef, 3Ss	3Ss, 3Ef, 2G, 2Sh
10	7e 1+8e 3	Very High	Very High		2Ss	
10	7e 2	High	High		3Ef, 3Ss	3Ss, 2Ef, 2G, 2Sh
10	7e 3	High	High		3Ss	3Ss, 2Sh, 1G
10	7e 4	High	High		2Ss, 2Ef	3Ss, 2Sh, 1T, 1Ef
10	7e 4+3e 4	High	High		2Ss	
10	7e 5	High	High		4Ss	3Ss, 1Sh, 1T
10	7e 6	Very High	High	Sandstone with Ef and Su, Mapped 3Ss, PES 3 Ss. Correlated with leg 6 7e5 (High), 7e12 (High)	3Ef, 3Ss	3Ss, 2Ef, 1Sh, 1Su
						3Ss, 2Ef, 2Su, 1Sh, 1T

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	7e 7	High	High		3Ss	3Ss, 1Sh	3Ss, 1Sh
10	7e 8	Moderate	Moderate		2Da	3Sh, 2Ss	3Sh, 2Ss
10	7e 9	High	High		3Da, 3Ss	3Ss, 3Da, 1Sh, 1Ef	3Ss, 3Da, 1Sh, 1Ef
10	7e 10	High	Moderate	Gw, regional correlation with leg5 7e2 (Moderate), leg6 7e11 (High – regional difference in deformation), leg8 7e10 (Moderate), leg9 7e2 (Moderate) and 7e5 (High – high rainfall)	1Ss, 1Da	3Ss, 3Da, 3Sh, 3Sc	3Sh, 3Sc, 3Ss, 3Da
10	7e 11	High	High		3Ss, 3Da	3Ss, 2Da, 1Sh, 1Ef	3Ss, 2Da, 1Sh, 1Ef
10	7e11+6e20	High	High		1Ss, 1Da, 1Ef, 1G		
10	7e11+6e23	High	High		1Ss		
10	7e 12	High	High		3Ef, 3G	3Ef, 3Su, 1Ss, 1G	not listed
10	7e 13	High	High		3Ss	3Ss, 1Sh, 1G	3Ss, 1Sh, 1T
10	7e13+8e 3	Very High	High		2Ss		
10	7e 14	Very High	Very High		4Ef	3-4Ef, 3G, 3Su	not listed
10	7e 15	Low	Low			3-5W	5W
10	7e15+3w 4	Low	Low				
10	7e15+4e10	Low	Low				
10	7e15+6e 4	Low	Moderate				
10	7e15+6e24	Low	Low				
10	7e15+6s 4	Low	Low				

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	7e 16	High	Very High	Very erodible rock type (Us), PES should be 4 (with 5 for 8e2)	2Ss, 2Ef, 2T	3Ss, 3G, 2Sh	3Ss, 3G, 2Sh
10	7e 17	Very High	High	Hard sandstone, steep slopes and bluffs. 3Ss mapped, PES 3. Correlated with leg2 7e12 (High)	3Ss	3Ss, 3Sh, 3Da	3Ss, 3Da, 2-3Sh
10	7e 18	High	High		2Da, 2Ss	3Ss, 3Da	not listed
10	7e 19	Very High	High	Taupo flow tephra, gully erosion potential. Correlated with leg4 7e12 (High), leg7 7e16 (High)	2G, 2Es	4G, 4Sb, 3Sh	4G, 4Sb, 3Sh
10	7e 20	Very High	Very High		4Ss	4Ss, 3Ef, 3Da, 2Sh	4Ss, 2Sh 3Da, 3Ef
10	7e20+6e20	Very High	Very High		2Ef, 2Ss		
10	7e 21	Moderate	Moderate		1Da	3W, 3Sh, 2Ss, 2Da	3W, 3Sh, 2Ss, 2Da
10	7e 22	Moderate	Moderate			3W, 3Sh, 3Sc, 2Ss, 2Da	3W, 3Sh, 3Sc, 2Ss, 2Da
10	7e 23	High	High		2Ss, 2Da	3Ss, 2Sh, 2W, 2Da	3Ss, 2Sh, 2W, 2Da
10	7e 24	Low	Low			4Sh, 4W	4Sh, 4W
10	7e 25	Low	Low		2G	5W	4Sh, 4W
10	7e 26	Low	Low		1G	3W	3W
10	7s 1	Low	Low		1Ss	1Sh	1Ss, 1Sh
10	8c 1	Low	Low		1G	5W, 5Sh	not listed
10	8e 1	Very High	Very High	Foredunes		5W	5W
10	8e 2	Very High	Very High		3G, 3Da	5G, 5Sb, 5Ss, 5Sh	5G, 5Sb, 5Ss, 5Sh
10	8e 2+3s 6	Very High	Very High				
10	8e 3	Very High	Very High		4Da, 4Ss	5Ss, 5Da, 5Sh	5Ss, 5Da, 5Sh

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
10	8e 3+2c 1	Very High	Very High		1Ss		
10	8e 3+2s 1	Very High	Very High		2Ss		
10	8e 3+3c 1	Very High	Very High		1Ss		
10	8e 3+3e 5	Very High	Very High		1Ss		
10	8e 3+3s 2	Very High	Very High		1Ss		
10	8e 3+3w 2	Very High	Very High				
10	8e 3+4e13	Very High	Very High		3Ss		
10	8e 4	Very High	High	Gw+Vo, very mixed lithologies, 3Ss mapped. Includes some Very High	3Ss	4-5Ss, 4-5Da, 4-5Sh, 4-5W, 3Sc	4-5Ss, 4-5Da
10	8e 5	Very High	High	Gw, mixed lithologies. Correlated with leg7 8e8 (High), leg8 8e7 (High)	2Da	5Ss, 5Da, 5Sc, 4W, 4Sh	not listed
10	8e 6	Very High	High	Only mapped as 1Da, PES 3Da. Correlated with leg7 8e7 (High)	1Da	5W, 5Sh, 3Da	not listed
10	8e 7	Very High	Very High	Gw, high rainfall. Correlated with many other legends	4Da, 4Ss	5Ss, 5Da, 5Sc, 5W, 5Sh	not listed
10	8e 8	Very High	High	Gw, mixed lithologies and slopes	3Da, 3G	5W, 5Sh, 5Sc	5W, 5Sh, 5Sc, 5Da
10	8e 9	Very High	Very High	Gw, mixed lithologies and slopes, high rainfall	3Da	5W, 5Sh, 5Sc, 4G, 4Da	not listed
10	8e 10	Very High	Low	Taupo tephra, easy slopes, wind erosion prone	1G	5W, 5Sh	5Sh, 5W
10	8w 1	High	Low	PES 5G when drained. No G mapped		5G, 5W	5G
11	1c 1	Low	Low		No extended legend	0-1W	
11	1c 1+2s 2	Low	Low		No extended legend		
11	1w 1	Low	Low		No extended legend	0	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	2c 1	Low	Low		No extended legend	0-1W when cultivated	
11	2e 1+2s 2	Low	Low		No extended legend	1W when cultivated	
11	2e 2	Low	Low		No extended legend	1W when cultivated	
11	2e 2+3s 6	Low	Low		No extended legend		
11	2s 1	Low	Low		No extended legend	1Sb	
11	2s 2	Low	Low		No extended legend	0-1W when cultivated	
11	2s 2+4s 5	Low	Low		No extended legend		
11	2s 4	Low	Low		No extended legend	0-1W when cultivated	
11	2w 1	Low	Low		No extended legend	0	
11	2w 1+4s 8	Low	Low		No extended legend		
11	3c 2	Low	Low		No extended legend	0-1Sb	
11	3c 3+4s 3	Low	Low		No extended legend	0-1Sb, 0-1W when cultivated	
11	3e 1	Low	Low		No extended legend	1W, [2W when cultivated]	
11	3e 2	Low	Low		No extended legend	1W, [2W when cultivated]	
11	3e 3	Low	Low		1Ss	No extended legend	1Sh, 1W, [2Sh, 2R, 2W when cultivated]
11	3e 3+4e 6	Low	Low			No extended legend	
11	3e 3+6e16	Moderate	Moderate			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	3e 4	Low	Low		No extended legend	1Sh, 1W [2Sh, 2R, 2R when cultivated]	
11	3s 1	Low	Low		No extended legend	1-2Sb	
11	3s 2	Low	Low		No extended legend	1-2W when cultivated	
11	3s 2+3w 1	Low	Low		No extended legend		
11	3s 2+4s 4	Low	Low		No extended legend		
11	3s 3	Low	Low		No extended legend	1Sb, 1W [1-2W when cultivated]	
11	3s 3+2s 2	Low	Low		No extended legend		
11	3s 3+3w 1	Low	Low		No extended legend		
11	3s 3+4s 3	Low	Low		No extended legend		
11	3s 4	Low	Low		No extended legend	0-1Sb	
11	3s 4+4s 7	Low	Low		No extended legend		
11	3s 5	Low	Low		No extended legend	1W [1-2W when cultivated]	
11	3s 6	Low	Low		No extended legend	1W [1-2W when cultivated]	
11	3s 6+2e 2	Low	Low		No extended legend		
11	3s 6+3w 1	Low	Low		No extended legend		
11	3s 6+4e 2	Low	Low		No extended legend		
11	3s 6+4s 3	Low	Low		No extended legend		
11	3s 6+4s 5	Low	Low		No extended legend		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
11	3s 7	Low	Low		No extended legend	0-1W when cultivated
11	3s 8	Low	Low		No extended legend	1W, 1R, 1Sh when cultivated
11	3s 8+4e 2	Low	Low		No extended legend	
11	3s 8+4e 6	Low	Low		No extended legend	
11	3w 1	Low	Low		No extended legend	0-1Sb
11	3w 1+3s 2	Low	Low		No extended legend	
11	3w 1+4s 8	Low	Low		No extended legend	
11	3w 1+4w 1	Low	Low		No extended legend	
11	3w 2	Low	Low		No extended legend	0-1D
11	4e 1	Low	Low	1Ss	No extended legend	1Sh, 1Ss [1-2Sh, 1-2R, 1-2W when cultivated]
11	4e 2	Low	Low	1G	No extended legend	1Sh, 1W [2Sh, 2R, 2W when cultivated]
11	4e 2+6e14	High	Moderate	1T	No extended legend	
11	4e 3	Low	Low		No extended legend	2Sh, 2Ss [2-3Sh, 2-3R when cultivated]
11	4e 4	Low	Low	1Ss	No extended legend	2Sh, 2Ss [2-3Sh, 2-3R when cultivated]
11	4e 4+6e 5	Moderate	Low	1T	No extended legend	
11	4e 4+6e 6	Moderate	Moderate	1Ss	No extended legend	
11	4e 4+6e12	Moderate	Low		No extended legend	

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
11	4e 5	Low	Low		No extended legend	2Ss, 2Sh [3H, 3R when cultivated]
11	4e 5+6e 7	High	Moderate		No extended legend	
11	4e 6	Low	Low	1Ss	No extended legend	1-2Sh, 1-2T, [2-3Sh, 2-3W, 2-3R when cultivated]
11	4e 6+3e 3	Low	Low		No extended legend	
11	4e 6+6c 4	Low	Low	1Ss	No extended legend	
11	4e 6+6e12	Moderate	Low		No extended legend	
11	4e 6+6e14	High	Moderate	1Ss, 1T	No extended legend	
11	4e 6+6e15	Moderate	Moderate	1Ss	No extended legend	
11	4e 6+6e16	Moderate	Moderate		No extended legend	
11	4e 7	Low	Low		No extended legend	2-3W when cultivated
11	4e 8	Low	Low		No extended legend	1-2W, 1-2Sb, 1-2D [2-3W when cultivated]
11	4e 9	Low	Low		No extended legend	2W, 2Sh [2-3W, 2-3Sh when cultivated]
11	4e 9+6e16	Moderate	Moderate		No extended legend	
11	4e 9+6e20	Low	Low		No extended legend	
11	4s 1	Low	Low		No extended legend	1-2Sb, 1-2D
11	4s 2	Low	Low		No extended legend	0-1W, 0-1Sb

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	4s 3	Low	Low		No extended legend	1W, 1Sb, [1-2W when cultivated]	
11	4s 3+3s 3	Low	Low		No extended legend		
11	4s 3+3w 1	Low	Low		No extended legend		
11	4s 3+4e 2	Low	Low		No extended legend		
11	4s 3+4s 6	Low	Low		No extended legend		
11	4s 3+5s 1	Low	Low		No extended legend		
11	4s 3+6s 1	Low	Low		No extended legend		
11	4s 4	Low	Low		No extended legend	1-2Sb, [1-2W when cultivated]	
11	4s 4+2w 1	Low	Low		No extended legend		
11	4s 4+6s 1	Low	Low		No extended legend		
11	4s 4+6s 3	Low	Low		No extended legend		
11	4s 5	Low	Low		1G	No extended legend	1W, [2W when cultivated]
11	4s 5+3w 1	Low	Low		No extended legend		
11	4s 5+6s 1	Low	Low		No extended legend		
11	4s 6	Low	Low		No extended legend	0-1W when cultivated	
11	4s 7	Low	Low		No extended legend	0-1Sb	
11	4s 7+3s 4	Low	Low		No extended legend		
11	4s 7+4s 3	Low	Low		No extended legend		

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	4s 8	Low	Low		No extended legend	1-2W when cultivated	
11	4s 8+3s 3	Low	Low		No extended legend		
11	4s 8+4s 6	Low	Low		No extended legend		
11	4s 8+6s 4	Low	Low		No extended legend		
11	4s 9	Low	Low		No extended legend	2W, 2Sh when cultivated	
11	4s 9+4e 8	Low	Low		No extended legend		
11	4s 9+4w 4	Low	Low		No extended legend		
11	4s 9+6e	Low	Low		No extended legend		
11	4s 9+6e12	Moderate	Low		No extended legend		
11	4s 9+6e22	Low	Low		No extended legend		
11	4s 9+6s 3	Low	Low		No extended legend		
11	4s10	Low	Low		No extended legend	2W, 2Sh when cultivated	
11	4s10+6s 2	Low	Low		No extended legend		
11	4w 1	Low	Low		No extended legend	0	
11	4w 2	Low	Low		No extended legend	0-1Sb, 0-1D	
11	4w 3	Low	Low		No extended legend	0-1Sb	
11	4w 4	Low	Low		No extended legend	1-2W 1-2Sb	
11	5s 1	Low	Low		No extended legend	2-3D	
11	5w 1	Low	Low		No extended legend	0	
11	6c 1	Low	Low		No extended legend	1-2W Sh	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	6c 1+6s 2	Low	Low			No extended legend	
11	6c 2	Low	Low			No extended legend	1-2W Sh
11	6c 4	Low	Low		1Ss, 1G	No extended legend	1Sh Ss
11	6e 2	Moderate	Low	E and D slopes, less erosion-prone than 7e3 (Moderate). PES 2 with mass movement subdominant	2Ss, 2Su	No extended legend	2Sh Ss
11	6e 2+4e 1	Moderate	Low			No extended legend	
11	6e 2+6e 3	Moderate	Moderate		2Su	No extended legend	
11	6e 2+7e 3	High	Moderate			No extended legend	
11	6e 3	Moderate	Moderate		2Ss	No extended legend	1-2Sh Ss
11	6e 3+6e23	High	Moderate		2G	No extended legend	
11	6e 4	Low	Low		2G	No extended legend	1-2Sh Ss
11	6e 5	Moderate	Low	Gw, easy slopes (E, D). PES considered overestimate	2Ss, 2G, 2Su	No extended legend	2Sh Ss
11	6e 5+4e 4	Moderate	Low			No extended legend	
11	6e 5+6c 4	Moderate	Low		1Ss	No extended legend	
11	6e 5+6e12	Moderate	Low		1SS	No extended legend	
11	6e 5+7e 4	High	Moderate		3Ss	No extended legend	
11	6e 6	Moderate	Moderate		2G	No extended legend	2Sh Ss G
11	6e 6+4e 4	Moderate	Moderate			No extended legend	
11	6e 6+4e 5	Moderate	Moderate			No extended legend	
11	6e 6+6e 2	Moderate	Moderate		1Ss	No extended legend	
11	6e 6+7e 6	High	High		1G	No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	6e 6+8e 3	Very High	Very High		1G	No extended legend	
11	6e 7	High	Moderate	Gw with Gw' in places, easy slopes (E+D) .PES rated as 2-3, 2Ss mapped	2Ss	No extended legend	2-3Sh Ss
11	6e 7+4e 3	High	Moderate			No extended legend	
11	6e 7+6e11	High	Moderate		1Ss	No extended legend	
11	6e 7+7e 5	High	High			No extended legend	
11	6e 7+7e12	High	High		1Ss	No extended legend	
11	6e 8	Moderate	Low	Gw, stable Gw steeplands, little mass movement, mass movement subdominant. Stable rocks, PES considered overestimate	2G, 2Ss	No extended legend	2Sh Ss Sc
11	6e 8+6e 3	Moderate	Moderate			No extended legend	
11	6e 8+7e 7	High	Moderate			No extended legend	
11	6e 9	Moderate	Moderate	Gw', St'		No extended legend	2Sh Ss Sc
11	6e 11	High	Moderate	Gw', St'. PES 2-3, mass movement sub dominant, mapped 2Ss	2Ss	No extended legend	2-3Sh Ss
11	6e 12	Moderate	Low	(Lo)/Gw, low rainfall, stable rocks, PES considered overestimate	2Ss, 2G, 2Su	No extended legend	2Sh Ss
11	6e12+4e 6	Moderate	Low			No extended legend	
11	6e12+4e 8	Moderate	Low			No extended legend	
11	6e12+4s 9	Moderate	Low			No extended legend	
11	6e12+7e14	High	Moderate			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	6e 13	Moderate	Low	(Lo)/Gw, low rainfall, stable rocks, PES considered overestimate	2Ss, 2T	No extended legend	2Sh Ss
11	6e13+4e 2	Moderate	Low			No extended legend	
11	6e13+4e 4	Moderate	Low			No extended legend	
11	6e13+4e 5	Moderate	Low			No extended legend	
11	6e13+4e 6	Moderate	Low		1Ss	No extended legend	
11	6e13+6s 1	Moderate	Low			No extended legend	
11	6e 14	High	Moderate	Loess, 3T mapped, PES 2T, lower susceptibility than 7e17 (High)	3T, 2G, 2Ss	No extended legend	2T Sh, 1Ss
11	6e14+4e 6	High	Moderate		1Ss, 1G, 1T	No extended legend	
11	6e 15	Moderate	Moderate		3T2Ss, 2G	No extended legend	2Sh Ss, 2G
11	6e15+4e 6	Moderate	Moderate		1Ss, 1G	No extended legend	
11	6e15+7e16	High	High		2G, 2T	No extended legend	
11	6e 16	Moderate	Moderate		3Ss, 3T	No extended legend	2Sh Ss T
11	6e16+4e 4	Moderate	Moderate			No extended legend	
11	6e16+4e 6	Moderate	Moderate		2T, 1Ss	No extended legend	
11	6e16+4e 9	Moderate	Moderate		1T	No extended legend	
11	6e16+4s 3	Moderate	Moderate		1Ss	No extended legend	
11	6e16+6e 2	Moderate	Moderate		1Ss	No extended legend	
11	6e16+6e 4	Moderate	Moderate		1Ss, 1T	No extended legend	
11	6e16+6s 1	Moderate	Moderate			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	6e16+6w 2	Moderate	Moderate		1Ss	No extended legend	
11	6e16+7e13	High	High		2Ss	No extended legend	
11	6e16+7e17	Very High	High		3T, 1Ss	No extended legend	
11	6e16+7s 2	Moderate	Moderate			No extended legend	
11	6e 17	High	Low	Gw, moderate rainfall. Mapped 2Ss 2G, PES 2 with mass movement subdominant. PES considered overestimate	2Ss, 2G	No extended legend	2Sh Ss W G
11	6e17+7e22	High	Moderate			No extended legend	
11	6e 18	High	Moderate	Moderate-high rainfall, PES 2-3, mass movement subdominant		No extended legend	2-3Sh Ss
11	6e 19	Moderate	Low	Gw, low rainfall. PES considered overestimate	5Da	No extended legend	2Sh Sc W G
11	6e19+6e 3	Moderate	Moderate		1G	No extended legend	
11	6e 20	Low	Low		1G	No extended legend	2Sh W
11	6e 21	Low	Low			No extended legend	2W
11	6e 22	Low	Low		1G	No extended legend	2-3W
11	6e22+6e19	Moderate	Low			No extended legend	
11	6e 23	High	Moderate	Mapped 2G, PES 2-3 with mass movement subdominant. Steeper than 6e5 (Low)	2G	No extended legend	2-3Sh G
11	6e23+6e 3	High	Moderate			No extended legend	
11	6s 1	Low	Low			No extended legend	1-2W Sb D
11	6s 1+4s 3	Low	Low			No extended legend	
11	6s 1+4s 4	Low	Low			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	6s 1+7s 1	Low	Low			No extended legend	
11	6s 2	Low	Low		1G	No extended legend	1-2W Sb D
11	6s 2+4s10	Low	Low			No extended legend	
11	6s 2+6c 1	Low	Low			No extended legend	
11	6s 2+6s 3	Low	Low			No extended legend	
11	6s 2+6s 5	Low	Low			No extended legend	
11	6s 2+6w 3	Low	Low			No extended legend	
11	6s 2+7s 3	Low	Low			No extended legend	
11	6s 3	Low	Low			No extended legend	1-2W Sh Sb
11	6s 3+6s 2	Low	Low			No extended legend	
11	6s 3+7s 3	Low	Low			No extended legend	
11	6s 4	Low	Low			No extended legend	1W
11	6s 4+4s 8	Low	Low			No extended legend	
11	6s 5	Low	Low			No extended legend	1-2W
11	6s 5+6s 2	Low	Low			No extended legend	
11	6s 5+7s 4	Low	Low			No extended legend	
11	6w 1	Low	Low			No extended legend	0
11	6w 1+7w 2	Low	Low			No extended legend	
11	6w 2	Low	Low			No extended legend	0-1Sb
11	6w 2+4w 1	Low	Low			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	7c 1	Low	Low		1G	No extended legend	2-3Sh W
11	7c 1+7e 2	High	Moderate		1G	No extended legend	
11	7c 1+7w 3	Low	Low			No extended legend	
11	7c 2	Low	Low			No extended legend	2W Sh
11	7c 3	Low	Low			No extended legend	2-3Sh W
11	7e 2	High	Moderate	Mapped 2G, PES 2-3 with mass movement subdominant. Extensive bare ground	2G	No extended legend	2-3Sh W Ss Sc
11	7e 2+7e26	High	High		1G	No extended legend	
11	7e 2+8e 7	Very High	High			No extended legend	
11	7e 3	High	Moderate	Limestone, steeper slopes and more erodible than 6e2 (Low). Mapped 2Ss 2G 2Su, PES 2-3	2Ss, 2G, 2Su	No extended legend	2-3Ss Sh
11	7e 4	High	Moderate	Gw, E+F slopes. Mapped 2G 2Ss, PES 2-3 with mass movement subdominant	2G, 2Ss	No extended legend	2-3Sh Ss G
11	7e 4+8e 2	Very High	High		2G	No extended legend	
11	7e 5	High	High	Gw+Gw'	1Ss	No extended legend	3Sh Ss
11	7e 6	High	High		1G	No extended legend	2-3Sh Ss G
11	7e 6+7s 1	High	High		1G	No extended legend	
11	7e 6+8e 3	Very High	Very High		2G	No extended legend	
11	7e 7	High	Moderate	Gw, F slopes, stable rock type. Single polygon mapped with 3G, PES 2-3 with mass movement subdominant. Related to 6e8 (Low)	3G	No extended legend	2-3Sh Ss Sc
11	7e 7+7e24	Very High	Moderate			No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	7e 7+8e 9	Very High	High		1G	No extended legend	
11	7e 8	High	High	Gw'+St', moderate-high rainfall	2Ss	No extended legend	2-3Sh Ss Sc
11	7e 11	High	High	Gw'+St', moderate-high rainfall	3Ss	No extended legend	3Sh Ss
11	7e 12	High	High	Gw'+St', moderate-high rainfall	3Ss	No extended legend	3Sh Ss
11	7e12+4s 7	High	High			No extended legend	
11	7e12+6e11	High	High			No extended legend	
11	7e12+8e 4	Very High	High		1Ss, 1Da	No extended legend	
11	7e 13	High	High		3Ss	No extended legend	2-3Sh Ss G
11	7e13+6e16	High	High		1G, 1Ss	No extended legend	
11	7e13+8e 3	Very High	Very High		2G	No extended legend	
11	7e 14	High	Moderate	(Lo)/Gw, stable Gw hill country, low to moderate rainfall. Mapped 3G, PES 2-3 with mass movement subdominant	3G	No extended legend	2-3Sh W Ss, 1-2Sc
11	7e14+6s 1	High	Moderate			No extended legend	
11	7e14+8e 9	Very High	High		2G	No extended legend	
11	7e 15	High	Moderate	(Lo)/Gw, stable Gw hill country, under low to moderate rainfall. Mapped 2Ss 2G, PES 2-3 with mass movement subdominant. Related to 6e13 (Low)	2Ss, 2G	No extended legend	2-3Sh W Ss
11	7e15+8e 1	Very High	High		2G, 2Ss	No extended legend	
11	7e 16	High	High		3G, 3T	No extended legend	1-3Sh W G Ss
11	7e 17	Very High	High	Reject Very High as not as susceptible as the worst of North Is. Mapped 3T, PES 2-3 with mass movement subdominant	4T	No extended legend	2-3T Sh W Ss

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion		
					Extended legend	Bulletin	
		Bloomberg et al. 2011	Revised 2015				
11	7e17+4e 6	Very High	High		No extended legend		
11	7e17+6e16	Very High	High	3T	No extended legend		
11	7e17+7e19	Very High	High		No extended legend		
11	7e 18	High	High	2G	No extended legend	3Sh Ss Da	
11	7e 19	Low	Low		No extended legend	3W D	
11	7e19+7w 2	Low	Low		No extended legend		
11	7e19+8e15	Very High	Very High		No extended legend		
11	7e 20	High	Moderate	Gw, stable rock type, low rainfall. Mapped 3G (small area), PES 3 with mass movement subdominant. Related to 6e19 (Low). Extensive bare ground but only moderate potential for mass movement.	3G	No extended legend	3Sh W Sc Da G
11	7e20+6e19	High	Moderate		1G	No extended legend	
11	7e20+7e23	High	Moderate		1G	No extended legend	
11	7e20+7e26	High	High		No extended legend		
11	7e20+8e 7	Very High	High		2G	No extended legend	
11	7e20+8e 8	Very High	High		2G	No extended legend	
11	7e 21	Low	Low		1G	No extended legend	3W Sh
11	7e 22	High	Moderate	Gw, easy slopes (E, D). Mapped 2G 2Da, PES 3 but no mass movement	2G, 2Da	No extended legend	3Sh W Sc
11	7e 23	High	Moderate	Gw, low rainfall, above treeline, stable rock type. Mapped 2G, PES 3 with mass movement subdominant.	2G	No extended legend	3Sh W Da
11	7e23+8e 8	Very High	High		No extended legend		

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Extended legend	Bulletin
		Bloomberg et al. 2011	Revised 2015			
11	7e 24	Very High	Moderate	Gw, F slope, moderate-high rainfall. Mapped 3Da 3G (small area), PES 3-4 with mass movement subdominant. PES considered an overestimate	3Da, 3G	No extended legend 3-4Sh W Ss Da
11	7e24+6e 5	Very High	Moderate		1G	No extended legend
11	7e24+6e17	Very High	Moderate		1G	No extended legend
11	7e24+8e 9	Very High	High		3G	No extended legend
11	7e 25	High	Moderate	Gw, moderate-high rainfall, steep slopes on stable rocks. Mapped 2Da 2Ss 2G, PES 3 with mass movement subdominant. Extensive bare ground but very little mass movement	2Da, 2G, 2Ss	No extended legend 3Sh W G Da Sc
11	7e 26	High	High		2G, 2Da	No extended legend 3Sh G
11	7s 1	Low	Low			No extended legend 1-2D W Sb
11	7s 2	Low	Low			No extended legend 1-2W
11	7s 2+7s 1	Low	Low			No extended legend
11	7s 2+8e 1	Very High	High			No extended legend
11	7s 3	Low	Low			No extended legend 2-3D Sb W
11	7s 3+6s 2	Low	Low			No extended legend
11	7s 4	Low	Low			No extended legend 2-3W
11	7s 5	Low	Low	1G	No extended legend	3Sh, 2D D
11	7w 1	Low	Low		No extended legend	0
11	7w 2	Low	Low		No extended legend	0
11	7w 3	Low	Low		No extended legend	1-2Sb

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	8c 1	Low	Low		2Da	No extended legend	2Sh W
11	8e 1	Very High	High		3G	No extended legend	4Sh Ss Da
11	8e 1+7e 3	Very High	High		2Su, 2Ss	No extended legend	
11	8e 2	Very High	High	Gw. Mapped 2G 2Ss, PES 5 with mass movement subdominant	2G, 2Ss	No extended legend	5Sh Ss G
11	8e 3	Very High	Very High		5G	No extended legend	5Sh Ss G
11	8e 3+7e 1	Very High	Very High		2G	No extended legend	
11	8e 3+7e 6	Very High	Very High		1G	No extended legend	
11	8e 4	Very High	High	Mapped 2Ss 2Da, PES 3	2Ss, 2Da	No extended legend	3Ss Sh Da
11	8e 4+7e12	Very High	High		1Ss, 1Da	No extended legend	
11	8e 5	Very High	High	Gw, St, high rainfall. Mapped 3Da 3G, PES 3	3Da, 3G	No extended legend	3Ss Da G Sh
11	8e 6	Very High	High	Gw, high rainfall. Mapped 4G, PES 5 with mass movement subdominant. Highest rainfall areas probably Very High	4G	No extended legend	5Sh Da Ss G W
11	8e 6+7e12	Very High	High		1Ss	No extended legend	
11	8e 6+7e18	Very High	High		1G, 1Ss	No extended legend	
11	8e 6+7e24	Very High	High		1G	No extended legend	
11	8e 7	Very High	High	Gw, low rainfall. Mapped 4G, PES 5 with mass movement subdominant. PES considered an overestimate	4G	No extended legend	5Sh Sc G W
11	8e 7+7e 2	Very High	High		1Da	No extended legend	
11	8e 7+7e20	Very High	High		2Da	No extended legend	
11	8e 7+7e26	Very High	High		2G	No extended legend	

Legend <sup>1</sup>	LUC unit	ESC		Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
		Bloomberg et al. 2011	Revised 2015			Extended legend	Bulletin
11	8e 8	Very High	High	Gw, low rainfall. Mapped 2G 2Da, PES 5 with mass movement subdominant. PES considered an overestimate	2G, 2Da	No extended legend	5Sh Sc G W
11	8e 9	Very High	High	Gw, moderate-high rainfall. Mapped 5G, PES 5 with mass movement subdominant. Highest rainfall areas probably Very High	5G	No extended legend	5Sh Da Ss G W
11	8e 9+7e24	Very High	High		3G	No extended legend	
11	8e 9+8e11	Very High	High		2G	No extended legend	
11	8e 10	Very High	Low	Gw, C - E slopes, W Sh and Sc dominant		No extended legend	5W Sh
11	8e 11	Very High	High	Gw + Vo, above treeline. Mapped 5G, PES 4-5 with mass movement subdominant	5G	No extended legend	4-5Sh Da Sc G W
11	8e11+8e 9	Very High	High		2G	No extended legend	
11	8e11+8e13	Very High	High			No extended legend	
11	8e 12	Very High	High	Gw, above treeline. Mapped 5G, PES 4-5 with mass movement subdominant. Highest rainfall areas probably Very High	5G	No extended legend	4-5Sh Da Sc G W
11	8e 13	Very High	High	Gw, above treeline, very steep. Mapped 3G, PES 5 with mass movement subdominant. Highest rainfall areas probably Very High	3G	No extended legend	5Sc Da W
11	8e 14	Very High	Moderate	Gw, scree, and rock debris. Mapped 2G 2Da, PES 2-3	2G, 2Da	No extended legend	2-3D Da Sc
11	8e 15	Very High	Very High	Foredunes		No extended legend	5W D
11	8e 16	Very High	Moderate	Strong rocks. Mapped 2G, PES 3 with mass movement subdominant	2G	No extended legend	3Sh Sc G
11	8s 1	Low	Low			No extended legend	3D W Sb

Legend <sup>1</sup>	LUC unit	ESC	Comment <sup>2</sup>	Maximum mapped erosion <sup>3</sup>	Potential erosion	
					Bloomberg et al. 2011	Revised 2015
11	8w 3	Low	Low		No extended legend	0-1D