

Spill Severity Index

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Factor Example

Environmental category (HD45 Table 2.1)

Category 1 - the most serious	1.0
Category 2 - significant but less severe	0.7
Category 3 - relatively minor	0.2
Category 4 - no impact	0.1
No spill occurred	0.0
[Not Determined]	0.2

$$0.7 = A1$$

Impact on environment

$$6 \times 4.2 = A = A1 \times 6 \text{ (max 6)}$$

Road classification and size (from HAPMS network location)

Motorway	1.0
APTR Dual 3+	0.9
APTR Dual 2	0.8
APTR Single	0.7
[Not snapped to HAPMS]	0.0

$$0.8 = B1$$

AADT (total for ONE carriageway)

> 25,000	1.0
15,000 - 25,000	0.8
< 15,000	0.6
[Not Recorded]	0.8

$$0.8 = B2$$

Impact on Traffic

Total closure	1.0
Partial closure	0.9
Hard shoulder only	0.6
Congestion only	0.7
No impact	0.0
[Not Recorded]	0.7

$$0.9 = B3$$

Duration of impact (cleared time - reported time)

> 2 hours	1.0
> 1 hour	0.9
> 15 mins	0.8
< 15 mins	0.0
[No cleared time recorded]	0.8

$$0.9 = B4$$

Impact on road users

$$2 \times 1.0 = B = B1 \times B2 \times B3 \times B4 \times 2 \text{ (max 2)}$$

Clean-up cost

> £25,000	1.0
£5,000-£25,000	0.5
<= £5,000	0.2
No cost	0.0
[Not Recorded]	0.5

$$0.5 = C1$$

Costs

$$2 \times 1.0 = C = C1 \times 2 \text{ (max 2)}$$

Overall Index of Spill Severity

$$6.2 = A + B + C \text{ (max 10)}$$