

# WS Policy 9: Spread Rates

| Policy WS 9:                                                                                                 |                                              |          |                                          |          |                                          |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|------------------------------------------|----------|------------------------------------------|
| Carriageway Treatment Matrix: Treated Salt                                                                   |                                              |          |                                          |          |                                          |
| Weather Conditions<br>Road Surface Conditions<br>Road Surface Temperature (RST)<br>when frost/ ice predicted | Moderate Traffic                             |          | Light Traffic 23:00-04:00(1st treatment) |          | Ploughing                                |
|                                                                                                              | Dry/Damp Road                                | Wet Road | Dry/Damp Road                            | Wet Road | No                                       |
| Precautionary Treatment (g/m <sup>2</sup> )                                                                  |                                              |          |                                          |          |                                          |
| At or above -1C                                                                                              | 7                                            | 7        | 9                                        | 9        | No                                       |
| -1.01C to -2.0C                                                                                              | 7                                            | 7        | 9                                        | 9        | No                                       |
| -2.01C to -3.0C                                                                                              | 7                                            | 10       | 9                                        | 13       | No                                       |
| -3.01C to -4.0C                                                                                              | 7                                            | 13       | 9                                        | 16       | No                                       |
| -4.01C to -5.0C                                                                                              | 8                                            | 16       | 10                                       | 20       | No                                       |
| -5.01C to -7.0C                                                                                              | 11                                           | 22       | 14                                       | 28       | No                                       |
| -7.01C to -10.0C                                                                                             | 16                                           | 31       | 20                                       | 39       | No                                       |
| -10.01C to -15.0C                                                                                            | 22                                           | 2 x 21   | 28                                       | 2 x 27   | No                                       |
| Forecast snow Up to 30mm                                                                                     | 15                                           | 15       | 20                                       | 20       | No                                       |
| Forecast snow greater than 30mm                                                                              | 15-30                                        | 15-30    | 20-40                                    | 20-40    | No                                       |
| Post Treatment (g/m <sup>2</sup> )                                                                           |                                              |          |                                          |          |                                          |
| Hoar frost/ice (see precautionary treatment above)                                                           | 8-30                                         | 8-30     | 10-40                                    | 10-40    | No                                       |
|                                                                                                              | (dependant on surface temperature and state) |          |                                          |          |                                          |
| Snow where precautionary treatment has taken place                                                           | 8                                            | 8        | 10                                       | 10       | Plough first if depth >5-15mm see note.4 |
| Snow where precautionary treatment has not taken place                                                       | 15-40                                        | 15-40    | 20-40                                    | 20-40    |                                          |
| Hard-packed snow/ice                                                                                         | salt and/or liquid de-icer                   |          |                                          |          | No                                       |

## Policy WS 9:

### Carriageway Treatment Matrix: Untreated Salt

| Weather Conditions<br>Road Surface Conditions<br>Road Surface Temperature (RST)<br>when frost/ ice predicted |  | Moderate Traffic                             |          | Light Traffic 23:00-04:00(1st treatment) |          | Ploughing                                |
|--------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|----------|------------------------------------------|----------|------------------------------------------|
|                                                                                                              |  | Dry/Damp Road                                | Wet Road | Dry/Damp Road                            | Wet Road | No                                       |
| Precautionary Treatment (g/m <sup>2</sup> )                                                                  |  |                                              |          |                                          |          |                                          |
| At or above -1C                                                                                              |  | 8                                            | 8        | 10                                       | 10       | No                                       |
| -1.01C to -2.0C                                                                                              |  | 8                                            | 8        | 10                                       | 10       | No                                       |
| -2.01C to -3.0C                                                                                              |  | 8                                            | 13       | 10                                       | 16       | No                                       |
| -3.01C to -4.0C                                                                                              |  | 9                                            | 17       | 11                                       | 21       | No                                       |
| -4.01C to -5.0C                                                                                              |  | 11                                           | 21       | 14                                       | 26       | No                                       |
| -5.01C to -7.0C                                                                                              |  | 15                                           | 30       | 19                                       | 38       | No                                       |
| -7.01C to -10.0C                                                                                             |  | 20                                           | 40       | 25                                       | 2 x 25   | No                                       |
| -10.01C to -15.0C                                                                                            |  | 28                                           | 2 x 28   | 28                                       | 2 x 27   | No                                       |
| Forecast snow Up to 30mm                                                                                     |  | 20                                           | 20       | 27                                       | 27       | No                                       |
| Forecast snow greater than 30mm                                                                              |  | 20-40                                        | 20-40    | 25-50                                    | 25-50    | No                                       |
| Post Treatment (g/m <sup>2</sup> )                                                                           |  |                                              |          |                                          |          |                                          |
| Hoar frost/ice (see precautionary treatment above)                                                           |  | Jan-00                                       | 8-30     | 10-40                                    | 10-40    | No                                       |
|                                                                                                              |  | (dependant on surface temperature and state) |          |                                          |          |                                          |
| Snow where precautionary treatment has taken place                                                           |  | 8                                            | 11       | 13                                       | 13       | Plough first if depth >5-15mm see note.4 |
| Snow where precautionary treatment has not taken place                                                       |  | 20-40                                        | 20-40    | 25-50                                    | 25-50    |                                          |
| Hard-packed snow/ice                                                                                         |  | salt and/or abrasive and/or liquid de-icer   |          | salt and/or liquid de-icer               |          | No                                       |