

### Electrical Conductivity Conversion Chart

| Suitability for irrigation | mS/cm | dS/m | µS/cm | ppm  | grains/gallon |
|----------------------------|-------|------|-------|------|---------------|
| Good to fair               | 0.1   | 0.1  | 100   | 67   | 4             |
|                            | 0.2   | 0.2  | 200   | 134  | 8             |
|                            | 0.3   | 0.3  | 300   | 201  | 12            |
|                            | 0.4   | 0.4  | 400   | 268  | 16            |
|                            | 0.5   | 0.5  | 500   | 335  | 20            |
|                            | 0.6   | 0.6  | 600   | 402  | 24            |
|                            | 0.7   | 0.7  | 700   | 469  | 28            |
|                            | 0.8   | 0.8  | 800   | 536  | 32            |
|                            | 0.9   | 0.9  | 900   | 603  | 36            |
|                            | 1.0   | 1.0  | 1000  | 670  | 40            |
|                            | 1.1   | 1.1  | 1100  | 737  | 44            |
|                            | 1.2   | 1.2  | 1200  | 804  | 48            |
|                            | 1.3   | 1.3  | 1300  | 871  | 52            |
| Fair to poor               | 1.4   | 1.4  | 1400  | 938  | 56            |
|                            | 1.5   | 1.5  | 1500  | 1005 | 60            |
|                            | 1.6   | 1.6  | 1600  | 1072 | 64            |
|                            | 1.7   | 1.7  | 1700  | 1139 | 68            |
|                            | 1.8   | 1.8  | 1800  | 1206 | 72            |
|                            | 1.9   | 1.9  | 1900  | 1273 | 76            |
|                            | 2.0   | 2.0  | 2000  | 1340 | 80            |
|                            | 2.1   | 2.1  | 2100  | 1407 | 84            |
|                            | 2.2   | 2.2  | 2200  | 1474 | 88            |
|                            | 2.3   | 2.3  | 2300  | 1541 | 92            |
| Very poor                  | 2.4   | 2.4  | 2400  | 1608 | 96            |
|                            | 2.5   | 2.5  | 2500  | 1675 | 100           |
|                            | 2.6   | 2.6  | 2600  | 1742 | 104           |
|                            | 2.7   | 2.7  | 2700  | 1809 | 108           |
|                            | 2.8   | 2.8  | 2800  | 1876 | 112           |
|                            | 2.9   | 2.9  | 2900  | 1943 | 116           |
|                            | 3.0   | 3.0  | 3000  | 2010 | 120           |
|                            | 3.1   | 3.1  | 3100  | 2077 | 124           |
|                            | 3.2   | 3.2  | 3200  | 2144 | 128           |
|                            | 3.3   | 3.3  | 3300  | 2211 | 132           |
| Extremely poor             | 3.4   | 3.4  | 3400  | 2278 | 136           |
|                            | 3.5   | 3.5  | 3500  | 2345 | 140           |
|                            | 3.6   | 3.6  | 3600  | 2412 | 144           |
|                            | 3.7   | 3.7  | 3700  | 2479 | 148           |
|                            | 3.8   | 3.8  | 3800  | 2546 | 152           |
|                            | 3.9   | 3.9  | 3900  | 2613 | 156           |
|                            | 4.0   | 4.0  | 4000  | 2680 | 160           |
|                            | 4.1   | 4.1  | 4100  | 2747 | 164           |
|                            | 4.2   | 4.2  | 4200  | 2814 | 168           |
|                            | 4.3   | 4.3  | 4300  | 2881 | 172           |
|                            | 4.4   | 4.4  | 4400  | 2948 | 176           |
|                            | 4.5   | 4.5  | 4500  | 3015 | 180           |
|                            | 4.6   | 4.6  | 4600  | 3082 | 184           |
|                            | 4.7   | 4.7  | 4700  | 3149 | 188           |
|                            | 4.8   | 4.8  | 4800  | 3216 | 192           |
|                            | 4.9   | 4.9  | 4900  | 3283 | 196           |
|                            | 5.0   | 5.0  | 5000  | 3350 | 200           |

EC is only one component of water quality. The residual alkali and sodium adsorption ratio will also affect its suitability for irrigation

Very low salinity water (EC less than 0.6) may cause soakage problems on some light textured soils

Higher salinity water can be suitable for irrigation if it is able to be mixed with lower salinity water i.e. conjunctive use