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| aggregated trial | shorthand trial name | longer trial names |
| control | Control | no modification or amendments |
| amendment only | Unmodified\_Cl.surface | no modification but chicken litter added at surface |
| deep ripping < 40cm no amendment | Rip.30\_none | deep ripping at 30cm with no amendments |
|  | Rip.35\_none | deep ripping at 35cm with no amendments |
|  | Rip.40\_none | deep ripping at 40cm with no amendments |
| deep ripping < 40cm amendment | Rip.30\_Fert.surface | deep ripping at 30cm with fertiliser at surface |
| deep ripping > 40cm no amendment | Rip.45\_none | deep ripping at 45cm with no amendments |
|  | Rip.50\_none | deep ripping at 50cm with no amendments |
|  | Rip.60\_none | deep ripping at 60cm with no amendments |
| deep ripping > 40cm amendment | Rip.50\_Cl.deep | deep ripping at 50cm with chicken litter placed deep in soil profile |
|  | Rip.50\_Cl.surface | deep ripping at 50cm with chicken litter at surface |
| deep ripping + spading > 40cm no amendment | Rip.50Spade.30\_none | deep ripping at 50cm and spading with no amendments |
|  | Rip.60Spade.30\_none | deep ripping at 60cm and spading with no amendments |
| inclusion ripping < 40cm no amendment | Rip.30IncRip\_none | deep ripping at 30cm and inclusion with no amendments |
|  | Rip.40IncRip\_none | deep ripping at 40cm and inclusion with no amendments |
| inclusion ripping < 40cm amendment | Rip.30IncRip\_gypsum.mix | deep ripping at 30cm and inclusion with gypsum mixed through the soil profile |
|  | Rip.40IncRip\_Lc.mix | deep ripping at 40cm and inclusion with lucerne mixed through the soil profile |
| inclusion ripping > 40cm no amendment | Rip.45IncRip\_none | deep ripping at 45cm and inclusion with no amendments |
|  | Rip.50IncRip\_none | deep ripping at 50cm and inclusion with no amendments |
|  | Rip.60IncRip\_none | deep ripping at 60cm and inclusion with no amendments |
| inclusion ripping > 40cm amendment | Rip.45IncRip\_Fert.deep | deep ripping at 45cm and inclusion with fertiliser placed deep in soil profile |
|  | Rip.45IncRip\_Fert.mix | deep ripping at 45cm and inclusion with fertiliser mixed through the soil profile |
|  | Rip.50IncRip\_Cl.mix | deep ripping at 50cm and inclusion with chicken litter mixed through the soil profile |
| inclusion ripping + spading > 40cm no amendment | Rip.45IncRip+Spade.30\_none | deep ripping at 45cm and inclusion and rotary spading at 30cm with no amendments |
|  | Rip.60IncRip+Spade.30\_none | deep ripping at 60cm and inclusion and rotary spading at 30 cm with no amendments |
| rotary spading no amendment | Spade.30\_none | rotary spading at 30cm with no amendments |
| rotary spading amendment | Spade.30\_Cl.gypsum.mix | rotary spading at 30cm with chicken litter and gypsum mixed through the soil profile |
|  | Spade.30\_Cl.mix | rotary spading at 30cm with chicken litter mixed through the soil profile |
|  | Spade.30\_clay@250 | rotary spading at 30cm with clay applied at rate of 250 |
|  | Spade.30\_clay@500 | rotary spading at 30cm with clay applied at rate of 500 |
|  | Spade.30\_Fert.mix | rotary spading at 30cm with fertiliser mixed through the soil profile |
|  | Spade.30\_gypsum.mix | rotary spading at 30cm with gypsum mixed through the soil profile |
| disc inversion no amendment | DiscInv.30\_none | disc inversion at 30cm with no amendments |