

# MAS4 COVER SOL

## PROTECTS AND STRUCTURES YOUR SOIL

- RAPIDLY COVERS AND PROTECTS THE SOIL**

Rich composition mixture allows rapid soil cover, limits salination and erosion

- STRUCTURES THE SOIL VERY WELL**

The roots of the species in the mixture are very complimentary and structure different levels of the soil

- STRONG BIOMASS PRODUCTION**

that begins before the winter and increases after the winter thanks to the vetch in the mixture



20% Gramineae

15% Brassicaceae

8% Others

57% Fabaceae

### MIXTURE DETAILS

| Species                | Variety / Type             | % Weight | No. kernels/<br>m <sup>2</sup> at min<br>density | Frost<br>sensitivity at<br>maturity | Benefits                                                                                                                                                             |
|------------------------|----------------------------|----------|--------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bristle Oat            | AVENA STRIGOSA<br>LATE     | 20%      | 23                                               | -10 °C                              | Produces biomass and develops rapidly, fast coverage, improves soil structure and traps carbon                                                                       |
| Brown Mustard          | BRASSICA JUNCEA<br>LATE    | 6%       | 45                                               | -5 °C                               | Late flowering which avoid mustards to go to seed and reduce lignification. Quick installation, good soil structuration and take up the residual soil nitrogen left. |
| Phacelia Scorpion Weed | PHACELIA<br>TANACETIFOLIA  | 8%       | 90                                               | -7 °C                               | Versatile specie that will fill all remaining spaces in cover crops. Good for pollinators and not in botanical family of main crops.                                 |
| Daikon Radish          | RAPHANUS SATIVUS<br>DAIKON | 9%       | 9                                                | -7 °C                               | Deep root to structure the soil. After destruction the roots will leave big holes in the soil for macro porosity.                                                    |
| Purple Vetch           | VICIA BENGHALENSIS         | 22%      | 10                                               | -8 °C                               | More aggressive than common vetch when tempratures are warm, less productive in winter and more sensitive to frost                                                   |
| Common Vetch           | VICIA SAT WINTER           | 35%      | 11                                               | -12 °C                              | Versatile legumes, fit for all soil and conditions, cover well the soil. Needs a tutor to avoid disease development                                                  |

## NUTRIENT GAIN FOR THE NEXT CROP

|                    | COVER CROP BIOMASS |       |       |
|--------------------|--------------------|-------|-------|
|                    | 3t DM              | 4t DM | 5t DM |
| Nitrogen (kg/ha)   | 34                 | 42    | 56    |
| Phosphorus (kg/ha) | 25                 | 30    | 40    |
| Potassium (kg/ha)  | 140                | 185   | 235   |
| Carbon (t/ha)      | 0.5                | 0.7   | 0.90  |

## MIXTURE EFFECTS

|                        |   |
|------------------------|---|
| Biomass                | 9 |
| Biodiversity           | 7 |
| Soil structure         | 9 |
| Nitrogen               | 7 |
| Pollinator             | 7 |
| Ease of destruction    | 7 |
| Speed of establishment | 8 |

1-3 sensitive – poor | 4-6 medium – good | 7-9 tolerant – excellent

## SOWING &amp; CULTIVATION

|               |                        |                                                                                                                       |
|---------------|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sowing period | Mid August-Mid October | Ideal sowing is between mid-August until end-September at 1-2cm depth. Destroy at least 1 month before the main crop. |
| Sowing rate   | 20 kg/ha               |                                                                                                                       |
| Sowing depth  | 1-2 cm                 |                                                                                                                       |
| Duration      | Annual                 |                                                                                                                       |