Varieties with the best performance in University of Padua tests

- Trampling resistance
- Low maintenance
- Sunny turfgrass
- Shade tolerance
- High aesthetic quality
- Water savings

Sowing season legend:
- Optimal
- Possible with due maintenance care (irrigation, adversity management)
- Discouraged
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PADANA SEMENTI is leader company in the field or turfgrass sector since the last 20 years, thanks to the continuous work of progress and innovation.

PADANA SEMENTI, since 10 years, has carried out in collaboration with the University of Padua experimental tests and test fields for the purpose to determine which are the best varieties on the market, paying particular attention to environmental sustainability.

Thanks to what we learned in the experiment, we are able to select, the best varieties to formulate innovative mixtures characterized by high resistance to stress (diseases, temperature, insects) and rustic lawn, this means a low maintenance (less cuts, less irrigations, less fertilizations) and lower costs!

Are available innovative mixtures, also formulated with mycorrhizal fungi that that promote root growth and functions and increase plant resistance to environmental stress.

PADANA SEMENTI is the only Italian seed company in the turfgrass sector to implement an efficient QUALITY CONTROL. This occurs by monitoring the entire production chain through two instruments:

- the ISO 9001 certified quality control management system;
- an internal laboratory accredited at CREA-SCS (ex ENSE), with highly qualified personnel to control every incoming seed lot, specifically checking germinability and real purity with specific controls on Poa annua and Lolium multiflorum.

PADANA SEMENTI offers 3 product lines, designed to meet every need, climate and soil:

- **Natural Garden:** the quality of professional products for the most demanding home user. Only made up by American varieties tested in Italy, coated with mycorrhizal fungi and bio activators for a more sustainable turf management!
- **Top Green:** complete line designed to meet the most varied environmental and use needs.
- **Turf Green:** easy line, with highly adaptable mixtures, excellent quality/price ratio.
### Top Green and Natural Garden formula technical features

<table>
<thead>
<tr>
<th>MIXTURE</th>
<th>ESTABLISHMENT VIGOUR</th>
<th>COLOUR</th>
<th>LEAF TEXTURE</th>
<th>TRAMPLING RESISTANCE</th>
<th>DROUGHT TOLERANCE</th>
<th>HEAT TOLERANCE</th>
<th>SHADE TOLERANCE</th>
<th>MAINTENANCE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATURAL GARDEN</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
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<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>LOW</td>
</tr>
<tr>
<td>NATURAL GARDEN SUD</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
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<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>VERY LOW</td>
</tr>
<tr>
<td>UNIRUSTIC PLUS</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>LOW</td>
</tr>
<tr>
<td>SPORTING</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
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<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>LOW</td>
</tr>
<tr>
<td>PRESTIGE</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>AVERAGE</td>
</tr>
<tr>
<td>SELF REPAIR</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>AVERAGE</td>
</tr>
<tr>
<td>BRILLANTE</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>AVERAGE</td>
</tr>
<tr>
<td>RIGENERVIT</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>AVERAGE</td>
</tr>
<tr>
<td>MICROMACRO</td>
<td></td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>💧💧💧💧💧</td>
<td>VERY LOW</td>
</tr>
</tbody>
</table>

*Note: The symbols represent the level of performance for each feature.*
Beautiful universal turfgrass, highly adaptable to all soils and all light situations. Low maintenance lawn: for a more sustainable turf management.

Natural Garden provides a dark lawn with fine texture, suited to intense traffic. It is preferred in cool Central-North areas. Since a slow growing variety, it requires infrequent mowing. Even irrigation can be reduced to zero, in cool and rainy areas in our alpine valleys. It well-resists highly cold winters.

**Sowing season:**
20 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA OVINA</td>
<td>40</td>
</tr>
<tr>
<td>LOLIUM PERENNE</td>
<td>40</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>15</td>
</tr>
<tr>
<td>FESTUCA RUBRA TRIC.</td>
<td>5</td>
</tr>
</tbody>
</table>

**Sowing season:**
Natural Garden sud stands out for its high resistance to disease, drought and high temperatures. Suited for all the warm areas in the Central-South, but also in the North where a rustic and resistance lawn is required. Texture is less fine than the previous. A significant characteristic of this formula, in addition to its slow growth, is its resistance to extremely hot summers, nowadays frequent even in the North.

Very rustic universal turfgrass, highly adaptable to all soils and all light situations. Extremely low maintenance lawn: requires infrequent mowing and little watering.

**AMERICAN VARIETIES TESTED IN ITALY!**

**Dose di semina:**
30 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA ARUNDINACEA</td>
<td>70</td>
</tr>
<tr>
<td>LOLFUM PERENNE</td>
<td>20</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>10</td>
</tr>
</tbody>
</table>

**Sowing season:**

- in 1 kg packs with heat-sealed seed saver bag
  (20 piece container-display).
- in 5 kg bag with handle with 5 heat-sealed seed saver bags
  (20 kg pack with 4 pieces).

Packages are already priced at € 14.00 for 1 kg pack and € 56.00 for 5 kg bag.

Natural Garden line advertising poster is supplied upon request.
UNIRUSTIC PLUS

Cool-season grasses mixture characterised by medium speed establishment and high resistance to water stress and high temperatures. It creates an average texture and dark green turf suited to be used, thanks to the significant trampling resistance, to recreational and ornamental uses. Excellent for sunny areas, it also well tolerates shade and water stagnation. Excellent hardiness.

Sowing rate:
35 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA ARUNDINACEA</td>
<td>70</td>
</tr>
<tr>
<td>LolioLUM PERENNE</td>
<td>25</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>10</td>
</tr>
</tbody>
</table>

available packages:
25 and 10 kg paper bag
5 kg pet bag
1 kg box (in 10 kg packages)
0.2 kg pack (in 5 kg packages)

Sowing season:

SPORTING

Highly resistant tall fescue-bluegrass mixture. Indicated for sunny areas subject to trampling and wear. The prevalence of good-quality tall fescue creates a low maintenance turf with good aesthetics (colour and leaf texture).

Sowing rate:
35 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA ARUNDINACEA</td>
<td>90</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>10</td>
</tr>
</tbody>
</table>

available packages:
25 and 10 kg paper bag
5 kg pet bag
1 kg box (in 10 kg packages)

Sowing season:
PRATO SELF REPAIR

*Innovative* blend formulated with latest generation *Lolium perenne* varieties, with *SELF-REGENERATING* capacity, to naturally repair the damages caused by wear, trampling, heavy traffic, insects and turf diseases.

**Very fast establishment, high competition against weeds!**

Dark green colour, high density and high aesthetic quality.

Seeds combined with *mycorrhizal fungi and bio-activators*, promote growth and root functionality and increase plant resistance to environmental stress.

**The first self-repair turfgrass!**

**Sowing rate:**
20 g/m² for new seeding
40 g/m² in regenerations

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATEST GENERATION</td>
<td>100</td>
</tr>
<tr>
<td><em>LOLIUM PERENNE</em></td>
<td></td>
</tr>
</tbody>
</table>

**available packages:**
- 25 and 10 kg paper bag
- 1 kg box (in 10 kg packages)

**Sowing season:**
- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEPT
- OCT
- NOV
- DEC
**BRILLANTE**

It is a tested formula that provides a fast establishment turf, with fine leaf and suited for low mowing, thus with a good ornamental impact. Durable and long-lasting, *Brillante* is the ideal lawn for areas with full sun exposure and has excellent trampling resistance and a good colour.

**Sowing rate:**
25 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA RUBRA R.</td>
<td>35</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>10</td>
</tr>
<tr>
<td>LolioUM PERENNE</td>
<td>55</td>
</tr>
</tbody>
</table>

**RIGENERVIT**

Mixture specifically formulated for damaged turf and worn sports field regeneration. It contains two different varieties of ryegrass and one of bluegrass. Ryegrass provides quick germination and fast coverage of bare areas. Bluegrass, with its rhizomatous activity, allows the turfgrass to consolidate and strengthen for future matches. Also indicated mixed with silica sand and peat to fill coring or thatch holes.

**Sowing rate:**
- 25 g/m² for new seeding
- 50 g/m² for regenerations

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>POA PRATENSIS</td>
<td>20</td>
</tr>
<tr>
<td>LolioUM PERENNE</td>
<td>80</td>
</tr>
</tbody>
</table>

**Available packages:**
- 25 and 10 kg paper bag
- 5 kg pet bag
- 1 kg box (in 10 kg packages)
- 0.5 kg pack (in 10 kg packages)

**Sowing season:**
- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEPT
- OCT
- NOV
- DEC

**Available packages:**
- 25 and 10 kg paper bag
- 5 kg pet bag
- 1 kg box (in 10 kg packages)
- 0.5 kg pack (in 10 kg packages)

**Sowing season:**
- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEPT
- OCT
- NOV
- DEC
**PRESTIGE**

Mixture that creates a lawn highly adaptable to both shady and sunny areas. It contains a reduced growth and low maintenance variety.

**Sowing rate:**
35 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA ARUNDINACEA</td>
<td>60</td>
</tr>
<tr>
<td>FESTUCA RUBRA R.</td>
<td>25</td>
</tr>
<tr>
<td>LolioM PERENNE</td>
<td>10</td>
</tr>
<tr>
<td>POA PRATENSIS</td>
<td>5</td>
</tr>
</tbody>
</table>

**MICROMACRO**

Combination of warm-season grasses and cool-season grasses species to create extremely hardy lawns in dry areas with low maintenance levels. It well adapts to marginal and coastal areas irrigated with brackish water.

**Sowing rate:**
35 g/m².

<table>
<thead>
<tr>
<th>Species</th>
<th>% weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FESTUCA ARUNDINACEA</td>
<td>80</td>
</tr>
<tr>
<td>CYNODON DACTYLON</td>
<td>10</td>
</tr>
<tr>
<td>LolioM PERENNE</td>
<td>10</td>
</tr>
</tbody>
</table>

**Available packages:**
25 and 10 kg paper bag
0.5 kg pack (in 10 kg packages)

**Confezioni:**
25 and 10 kg paper bag

**Sowing season:**

[Seasonal sowing chart for PRESTIGE and MICROMACRO]
<table>
<thead>
<tr>
<th>Variety</th>
<th>Distinctive Elements</th>
<th>Species Characteristics</th>
<th>Sowing Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>New Orleans (USA)</strong></td>
<td>Creeping variety with very dark colour and fine texture. Extremely high density. Reduced vertical growth. The only ryegrass with recovery capacity</td>
<td>Cool season grasses suited for cool areas with good irrigation availability. Medium texture, deep green colour and creeping nature. Average size and exceptional establishment speed. Excellent trampling resistance.</td>
<td>15-20 g/m²</td>
</tr>
<tr>
<td><strong>Presidian (USA)</strong></td>
<td>Dark coloured variety, fast establishment and high density. Supports low mowing. Good disease resistance.</td>
<td></td>
<td>25-35 g/m²</td>
</tr>
<tr>
<td><strong>Fancy (DE)</strong></td>
<td>Average green coloured variety. It creates a turf resistant to trampling and with a good texture.</td>
<td></td>
<td>25-35 g/m²</td>
</tr>
<tr>
<td><strong>Lexington (USA, CZ)</strong></td>
<td>Very dark coloured variety. Improved tillering capacity, it creates a very dense turf. High resistance to summer and winter stress, it is capable of early vegetative recovery.</td>
<td>Cool season grasses with the highest resistance to high temperatures and drought and with good resistance to low temperatures. Average texture and bunch type habitus. It creates very hardy and resistant turfgrasses with good density and excellent trampling resistance. Average establishment speed. Low maintenance needs. It generally does not support low mowing.</td>
<td>35-40 g/m²</td>
</tr>
<tr>
<td><strong>Talladega (USA)</strong></td>
<td>Produces a high-quality turf, very dense (“Aggressive Tillering” – AT), with great trampling resistance and superior drought tolerance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Olympic Gold (USA)</strong></td>
<td>Dark green variety, it creates a turfgrass with excellent density, resistant to diseases. Good disease resistance, especially to <em>Rhizoctonia</em>.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIETY</td>
<td>DISTINCTIVE ELEMENTS</td>
<td>SPECIES CHARACTERISTICS</td>
<td>SOWING RATE</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>PENNCROSS</td>
<td>Variety with good vigour and fine texture. Excellent wear resistance, good disease tolerance.</td>
<td>Species originally from cold-humid climates. Typically creeping with a well-developed stoloniferous structure. Demanding, it requires a high level of maintenance supporting very low mowing. The absolute best species in colour and turf quality.</td>
<td>5-7 g/m²</td>
</tr>
<tr>
<td>(USA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PINEHURST</td>
<td>Exceptional quality variety even with average maintenance levels, it guarantees fast coverage and exceptional density.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ALPHA in USA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DECLARATION</td>
<td>Variety characterized by vigorous growth and high disease tolerance, specially selected to reduce the use of fungicides, for a more sustainable turf management.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(USA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGHLAND</td>
<td>Blue-green coloured erect habit. It adapts to poor fertile soils.</td>
<td>Species with bunch type habitus and low lateral spreading, it establish turfgrasses with good density. It requires moving heights slightly higher than <em>A. stolonifera</em> and high maintenance levels.</td>
<td>5-7 g/m²</td>
</tr>
<tr>
<td>(USA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGROSTIS TENUIS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD84 (NZ)</td>
<td>Cultivar with medium texture and decisively superior density</td>
<td>White clover is suited for small surfaces, creeping and highly decorative given its leaf shape and intense spring-summer flowering.</td>
<td>5-10 g/m²</td>
</tr>
<tr>
<td>RIVENDEL (DK)</td>
<td>Small sized variety with small leaves.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGROSTIS STOLONIFERA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRIFOLIUM REPENS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*AGROSTIS TENUIS* refers to *Agrostis stolonifera*, *AGROSTIS STOLONIFERA* refers to *Agrostis tenuis*, and *TRIFOLIUM REPENS* refers to *Trifolium repens*.
### Cynodon Dactylon

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>DISTINCTIVE ELEMENTS</th>
<th>SPECIES CHARACTERISTICS</th>
<th>SOWING RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMUNE (USA)</strong></td>
<td>Common type.</td>
<td>Warm-season grasses with medium-fine texture and excellent density. Supports low mowing.</td>
<td>7-8 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Highly resistant to drought and high temperatures. Excellent resistance and recovery capacity to more intense traffic.</td>
<td>(non coated seed)</td>
</tr>
<tr>
<td><strong>BLACK JACK (USA)</strong></td>
<td>Dark green colour variety. Good trampling resistance.</td>
<td></td>
<td>14-20 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(coated seed)</td>
</tr>
</tbody>
</table>

### Dichondra Repens

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>DISTINCTIVE ELEMENTS</th>
<th>SPECIES CHARACTERISTICS</th>
<th>SOWING RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Available with 33% coated seed.</td>
<td>Creeping dicotyledon species, well tolerates heat and drought. Excellent aesthetic qualities, does not require mowing.</td>
<td>10-15 g/m²</td>
</tr>
</tbody>
</table>

### Paspalum Notatum

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>DISTINCTIVE ELEMENTS</th>
<th>SPECIES CHARACTERISTICS</th>
<th>SOWING RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BAHIA GRASS (USA)</strong></td>
<td>Rough texture species, it creates a non-demanding lawn, does not support low mowing. Hardy and resistant, it is suited for low maintenance lawns in poor or dry soils.</td>
<td></td>
<td>10-15 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(non coated seed)</td>
</tr>
</tbody>
</table>

### Pennisetum Clandestinum

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>DISTINCTIVE ELEMENTS</th>
<th>SPECIES CHARACTERISTICS</th>
<th>SOWING RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WHITTET (USA)</strong></td>
<td>Variety selected in Australia. Hardy, slightly rougher texture. Highly aggressive, with excellent establishment speed.</td>
<td>Warm-season grasses with the absolutely lowest dormancy. Excellent heat, drought and disease resistance, decent salinity resistance. Undemanding, very aggressive establishment.</td>
<td>14-20 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(coated seed)</td>
</tr>
</tbody>
</table>
**TURF GREEN SPORT**
Fast establishing and ready effect lawn, for areas with high traffic.

Sowing rate:
25 g/m².

Available packages:
5 and 10 kg paper bag
1 kg box (in 10 kg packages)

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**TURF GREEN SUN SEED**
Hardy and resistant lawn for sunny areas, with reduced maintenance needs.

Sowing rate:
40-45 g/m².

Available packages:
5 and 10 kg paper bag
1 kg box (in 10 kg packages)

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L. *PERENNE*
F. *ARUNDINACEA*
P. *PRATENSIS*

Sowing season:

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JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT NOV DEC
**TURF GREEN RUSTICUS LAWN**
Mixture designed for fast establishment, trampling resistance and hardiness.

**Sowing rate:**
40-45 g/m².

**Available packages:**
5 and 10 kg paper bag

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**TURF GREEN OMBRA**
Mixture suited for parks and large lawns with widespread shade.

**Sowing rate:**
35-40 g/m².

**Available packages:**
5 and 10 kg packages with handles

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**Sowing season:**

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Mixtures for technical grassing, environmental recovery and hydroseeding

- Protect soil fertility altered by farming activities.
- Improve environmental quality and reduced impact on the ecosystem by human activities (biodiversity, aesthetic impact, possibility of reconverting altered areas).

“TECHNICAL GRASSING” defines many types of ground coverage with grass essences, usually perennial, designed for different uses:

1. Grassing between tree crops.
2. Environmental recovery and ski slope grassing suited for hydroseeding.
3. Environmental reclamation.
1. GRASSING FOR TREE CROPS

- Sowing appropriate species in the space between rows of tree crops (vineyards, fruit trees, olive trees, etc.) is becoming an increasingly common choice with widely demonstrated agronomic and environmental advantages.
- Padana Sementi has designed a grassing program to fulfill the most common agronomic requirements in the different climatic areas: continental and Mediterranean.
- The company is also available for consultancy on the formulation of customised solutions.

**BENEFITS OF GRASSING BETWEEN ROWS OF TREE CROPS:**

- **Reduction of soil** erosion caused by water and wind.
- **Improvement in soil structure** (better water permeability, better root aeration).
- **Better soil supporting** ability (facilitates human and vehicle transit in adverse conditions).
- **Increase in soil fertility** (better organic substance, increase soil organisms, better root development).
- **More biodiversity** (activity of useful organisms for crops: pollinators, parasite predators, etc.).
- **Buffer effect** against chemical products used (fertilisers, plant protection products).
- **Reduced use of pesticides** (according to the National Action Plan).
- **Improvement in the aesthetic effect and landscape.**

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Many leading companies have successfully used our grassing mixtures. Among these:

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**SOTTOFRUTTETO**

**CHARACTERISTICS:**

**Use:** grassing for orchards and vineyards.

**Growing area:** Central-North. In the south, only in places where there are no excessive summer competition problems.

- **Establishment speed:** average
- **Persistence:** average-high
- **Stress resistance:** average-high
- **Summer competition:** average-high

**Distinctive features:**
- Special varieties with reduced plant development with good coverage and weed control.
- It competes less with orchard compared to spontaneous grasses.
- Excellent supporting ability and resistance to trampling and shading.

**PERIOD:** autumn or early spring.

**SOWING RATE:** 80-100 kg/ha.
SOTTOVIGNETO

CHARACTERISTICS:
Use: grassing for orchards and vineyards.
Growing area: North, central in cooler areas.
- Establishment speed: fast
- Persistence: average
- Stress resistance: average
- Summer competition: average-low
Distinctive features:
- Variety with reduced plant development and reduced competition.
- Good resistance to vehicle traffic.
- Limits the development of weeds and requires few mowings
PERIOD: autumn or early spring.
SOWING RATE: 80-100 kg/ha.

SELF RE-SEEDING

CHARACTERISTICS:
Use: grassing for orchards and vineyards in Mediterranean areas.
Growing area: Southern regions and islands.
- Establishment speed: average
- Persistence: average
- Stress resistance: average-high
- Summer competition: none
Distinctive features:
- Also suitable for lean soils from sub-acidic to alkaline (pH 6-8)
- Mixture of self-reseeding leguminous crops, very adaptable.
- Respects the grassland during flowering to allow reseeding and autumn regeneration.
- No summer competition and formation of a layer of mulch that stops weeds in hot months.
- Improves soil fertility and attracts useful insects.
PERIOD: autumn.
SOWING RATE: 30-35 kg/ha.

Percentage grassing composition

<table>
<thead>
<tr>
<th>GRASSLAND</th>
<th>GRAMINACEOUS</th>
<th>LEGUMINOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bromegrass</td>
<td>Cocksfoot</td>
</tr>
<tr>
<td>SOTTOFRUTTETO</td>
<td>55</td>
<td>35</td>
</tr>
<tr>
<td>SOTTOVIGNETO</td>
<td>38</td>
<td>45</td>
</tr>
<tr>
<td>SELF RE-SEEDING LEG.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PADANA SEMENTI ELETTE reserves the right to make variations to the compositions of the mixtures, whenever it deems appropriate for improvement purposes or variety innovation.
2. GRASSING FOR SKI SLOPES AND MOUNTAIN ENVIRONMENTS

The formulas are specifically designed for grassing ski slopes, with a balanced ratio between graminaceous and leguminous species that promotes the evolution of the grassing and the renaturalisation of the grassy area. Graminaceous crops give the mixture quick establishment properties and a fast erosion containment effect, whereas the presence of leguminous crops is fundamental to balance the grassland and promote the improvement of soil with poor nutritional elements. Padana Sementi also adds some spontaneous species with high nature value to mixtures, and can customise formulas to the customer’s needs.

Some important steps must be taken when using these mixtures:

- **Sowing period:** preferably straight after the snow has melted. For autumn sowing, especially at higher altitudes, the risk factors are higher: therefore it is recommended to sow in late autumn (dormant seeding) in order to promote the germination of the seeds after thawing.
- **Preparing the soil:** it is recommended to use organic fertilizers, which can be available for plants long term due to their slow release.
- **At the end of the season, grazing or chopping is recommended to keep the grassland compact and strong.**

**SKI 1000**

**CHARACTERISTICS:**
Use: grassing ski slopes and environmental renaturalization at not high altitudes.

Growing area:
hilly/mountainous areas in the Centre-North. South only at higher and cooler altitudes.

- Establishment speed: average
- Persistence: average-high
- Stress resistance: average-high
- Summer competition: high

Distinctive features:
- Mixture for grassing banks to over 1000 m. (within forest limits).
- Persistent species and with very developed roots.
- Good soil resistance.
- Includes spontaneous flowering species.

**PERIOD:** autumn or early spring.

**SOWING RATE:**
200-250 kg/ha (recommended rate for hydroteching).

**SKI 2000**

**CHARACTERISTICS:**
Use: grassing ski slopes and environmental renaturalization at high altitudes (beyond the limit of the wood).

Growing area: High altitudes or cold north facing slopes

- Establishment speed: average
- Persistence: average-high
- Stress resistance: high
- Summer competition: high

Distinctive features:
- Mixture suited for use in difficult and restrictive conditions from the pedological, climatic and altimetric standpoints.
- Includes spontaneous flowering species.

**PERIOD:** autumn or early spring.

**SOWING RATE:**
200-250 kg/ha (recommended rate for hydroteching).
3. ENVIRONMENTAL RENATURALIZATION

- The composition should be personalised for each area: Padana Sementi is also able to offer consultancy and customised solutions in this area.
- The formulations must guarantee quick establishment and coverage in difficult conditions, without blocking access to local species (careful choice of species and percentages).
- Possibility to add spontaneous species with high ecological value in low percentages.

SCARPATE QUOTA 1000

CHARACTERISTICS:

Use: grassing banks and environmental reclamations

Growing area: Central-North; South only in mountainous areas at higher altitudes

- Establishment speed: average-fast
- Persistence: average
- Stress resistance: average
- Summer competition: average-high

Distinctive features:
- Mixture for grassing banks from the plain to over 1000 m.
- Balanced and sufficiently complex formula. Good establishment ability in lean soils.
- Over time allows natural floristic evolution with the entry of spontaneous species.
- It is multifunctional as, where possible, it provides various cuts of good quality forage in one year.
- Quick establishment and good soil resistance.

PERIOD: autumn or early spring.

SOWING RATE: 200-250 kg/ha (recommended rate for hydroseeding).

### Percentage composition of the different technical grassing mixtures

<table>
<thead>
<tr>
<th></th>
<th>GRAMINACEOUS</th>
<th>LEGUMINOUS</th>
<th>OTHERS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GRASSLAND</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bromo</td>
<td>55</td>
<td>35</td>
<td>10</td>
</tr>
<tr>
<td>Ebr. Mazzolina</td>
<td>38</td>
<td>45</td>
<td>10</td>
</tr>
<tr>
<td><em>Mix di fiori spontanei</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SOTTOFRUTTETO</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>SOTTOVIGNETO</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LEG. AUTORISEMINANTI</strong></td>
<td>80</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>SKI 1000</strong></td>
<td>5 14 15 6 16 9 3 11 4 5 2</td>
<td>5 5</td>
<td></td>
</tr>
<tr>
<td><strong>SKI 2000</strong></td>
<td>5 25 18 13 5 12 15 7 5 4 4 2</td>
<td>3 5</td>
<td></td>
</tr>
<tr>
<td><strong>SCARPATE QUOTA 1000</strong></td>
<td>5 10 18 13 5 12 15 7 5 4 4 2</td>
<td>3 5</td>
<td></td>
</tr>
</tbody>
</table>

*Achillea millefolium, Buphthalmum salicifolium, Centaurea jacea, Cichorium intybus, Daucus carota, Dianthus barbatus, Galium verum, Leucanthemum vulgare, Salvia pratensis, Sanguisorba minor, Securigera varia, Silene flos-cuculi, Silene vulgaris.*

The spontaneous species content is calculated to provide a final investment of 500 seeds/m2.

Padana Sementi reserves the right to make variations to the compositions of the mixtures, whenever it deems appropriate for improvement purposes or variety innovation.
4. MIXTURES FOR BIODIVERSITY

Mixtures that are characterized by the high presence of spontaneous species, with the aim of having different and lasting flowering throughout the seasons. The great added value of wild species in these mixtures lies in their extreme rusticity and very low maintenance demand and natural propagation capacity over the years, making the process of renaturalization of a site more rapid.

USES:
- Buffer strips in agricultural areas at the edges of the main crops.
- Ecological corridors in the agricultural field for sheltering useful insects and beekeeping.
- Grassing for natural areas.
- Recovery of marginal and degraded areas, with minimal maintenance.
- Grassing of tourist/landscaping interest (farmhouses, educational farms, golf courses, gardens).

MANAGEMENT:
- The optimal sowing is done in late summer on a well-prepared soil, followed by rolling. Spring sowing is also possible.
- Important starting from a clean and weed-free seedbed (recommended the practice of false-sowing).
- The fastest growing species accompany and protect the slowest wild species to develop. Perennial plants flowering can be fully appreciated starting from the second year after sowing.
- The correct mowing management, to be carried out in spring and autumn after the main flowerings, allows to keep the meadow cleaned from aggressive weeds.
- The lawn does not need fertilization (wild species are disadvantaged in an overly fertile soil).
- Irrigation can be useful during establishment, especially with spring sowing, after that it is not more necessary.

FLOWERED BUFFER STRIPS

CHARACTERISTICS:
- Mixture containing 19 spontaneous perennial flowering species and 3 annuals species.
- It is indicated for the establishment of ecological corridors at the edge of the crops (herbaceous, horticultural, orchards): the purpose is to accommodate useful insects and pollinators that assure the productivity of crops both in traditional and in organic farming.

USE:
Apiculture, increased biodiversity in agricultural environments, environmental recovery in natural areas.

GROWING AREA:
Center-North. South in cooler or irrigated areas. It can be sow up to the altitude of 1400-1500 meters.

PERIOD: autumn or early spring.

SOWING RATE: 40-45 kg/ha, equal to 4-4.5 g/m².

SPECIE %
F. rubra 39
L. perenne 8
Poa pratense 4
F. ovina 9
F. arundinacea 7
T. pratense 5
Lupinella 19,6
Ginestrino 3

MIX DI FIORI SPONTANEI*: Achillea millefolium, Anthemis arvensis, Betonica officinalis, Buphthalmum salicifolium, Campanula glomerata, Centaurea cyanus, Centaurea jacea, Centaurium erythraea, Cichorium intybus, Daucus carota, Galiun verum, Holcus lanatus, Hypericum perforatum, Hypochaeris radicata, Leucanthemum vulgare, Maka sylvestris, Papaver rhoes, Linaria vulgaris, Sisymbrium officinale, Silene flos-cuculi, Silene vulgaris.

* The spontaneous species content is calculated to provide a final investment of 1000 seeds/m².

PADANA SEMENTI reserves the right to make variations to the composition of the mixtures, wherever it deems appropriate for improvement purposes or variety innovation.
**FLOWERED LAWN**

**FEATURES:**
- Mixture containing **25 spontaneous perennial flowering species and 3 annuals** species.
- Formula designed to enhance marginal areas with very low maintenance for ornamental and landscaping purposes.
- Indicated to obtain the most natural lawn effect from the rich and varied flowering.
- **Unbeatable rusticity and ecological value**, coupled with an attractive aesthetic result.
- Important to follow the above-mentioned management tips.

**USE:** Areas of tourist/landscaping interest: farms, educational farms, urban areas, golf courses, beekeeping.

**GROWING AREA:**
Center-North. South in cooler or irrigated areas. It can be sow up to the altitude of 1400-1500 meters.

**PERIOD:** Autumn or early spring.

**SOWING RATE:**
40-45 kg/ha, equivalent to 4-4.5 g/m².

---

**SPECIE** | **%**
--- | ---
F. rubra | 29
L. perenne | 8
Poa pratense | 4
F. ovina | 15
T. pratense | 5
Lupinella | 18
Ginestrino | 3

**MIX DI FIORI SPONTANEI**: 18

*Achillea millefolium, Anthems arvensis, Anthoxantum odoratum, Anthyllis vulneraria, Betonica officinalis, Brachypodium rupestre, Briza media, Bromopsis erecta, Buphthalmum salicifolium, Campanula glomerata, Centaurea cyanus, Centaurea jacea, Centaurea erythraea, Cichorium intybus, Daucus carota, Filipendula vulgaris, Galium verum, Holcus lanatus, Hypericum perforatum, Hypochaeis radicata, Leucanthemum vulgare, Papaver rhoeas, Salvia pratensis Sanguisorba minor, Scabiosa triandra, Securigera varia, Silene flos-cuculi, Thymus pulegioides, Trifolium rubens*

*The spontaneous species content is calculated to provide a final investment of 2000 seeds/m².*

PADANA SEMENTI reserves the right to make variations to the composition of the mixtures, whenever it deems appropriate for improvement purposes or variety innovation.