

ariety mixtures of as a tool in weed management Spring barley

Why use variety mixtures?

- Yield stability
- Improved resistance against diseases
- Better competitiveness against weeds

Crop competitiveness: the key is to obtain a dense crop canopy during the growing season. Large crop biomass means low weed biomass, especially if the crop closes the canopy quickly.

So how do you obtain this situation with the information available?

Typical available information: height at end of season, straw characteristic, tillering, yield and maturity timing

In the table below you can see that height in early season and leaf area are also relevant parameters. Below we have provided the information that we produced in the PRODIVA project on a selection of varieties.

Examples of characteristics of varieties plus the best mixture from Prodiva (Dragoon-Fairytale):

Barley variety	Height early season	Height end of season	Tillering	Leaf Area	Crop biomass	Yield
Evergreen	Medium	Medium	Medium-High	Medium	Medium	High
Fairytale	Medium-High	High	Medium	Medium	Medium	Medium
KWSIrina	Medium	Medium	Low-Medium	High	Medium	Low-Medium
Quench	Medium	Low-Medium	Medium	Medium	Low	Low
Dragoon	Medium	Medium	Medium	Medium-High	Low-Medium	Medium
Scholar	Medium	Medium	Medium	Medium	Low	Medium
Evalina	High	High	Low	Medium-High	Medium	Medium-High
Dragoon- Fairytale	Medium	Medium-High	Medium	Medium	Medium	High

and variety mixtures.

These groups are based on organic growing conditions according to Danish regulation Seeding density: 350 pl/m², fertiliser: 100 kg slurry/ha



