

List of Recommended Varieties of Forage Plants

Appendix

The „List of Recommended Varieties of Forage Plants” contains only these varieties, which yielded the best results in comparative variety trials in the field. The use of the respective varieties in the so-called „standard mixtures for leys” is mentioned. The various species are presented in the following order:

I. Leguminosae

1. Luzerne, lucerne, alfalfa (*Medicago sativa* L.)
2. Rotklee, red clover (*Trifolium pratense* L.)
3. Weissklee, white clover (*Trifolium repens* L.)
4. Esparslette, sainfoin (*Onobrychis viciifolia* Scop.)
5. Schotenklee, bird's foot trefoil (*Lotus corniculatus* L.)
6. Alexandrinerklee, berseem (*Trifolium alexandrinum* L.), Perserklee, persian clover (*Trifolium resupinatum* L.) and Inkarnatklee, crimson clover (*Trifolium incarnatum* L.)

II. Grasses

1. Knaulgras, cocksfoot, orchard grass (*Dactylis glomerata* L.)
2. Wiesenschwingel, meadow fescue (*Festuca pratensis* Hudson)
3. Rohrschwingel, tall fescue (*Festuca arundinacea* Schreber)
4. Rotschwingel, red fescue (*Festuca rubra* L.)
5. Westerwoldisches Raigras, westerwold ryegrass (*Lolium multiflorum* Lam. var. *westerwoldicum* Mansh.)
6. Italienisches Raigras, Italian ryegrass (*Lolium multiflorum* Lam. var. *italicum* Beck)
7. Bastard-Raigras, hybrid ryegrass (*Lolium x hybridum* Hausskn.)
8. Englisches Raigras, perennial ryegrass (*Lolium perenne* L.)
9. Wiesenrispengras, smooth-stalked meadow grass, Kentucky bluegrass (*Poa pratensis* L.)
10. Timothe, timothy (*Phleum pratense* L.)
11. Wiesenfuchsschwanz, meadow foxtail (*Alopecurus pratensis* L.)
12. Fromental, tall oatgrass (*Arrhenatherum elatius* L.)
13. Goldhafer, golden oatgrass (*Trisetum flavescens* L.)
14. Straussgräser, bentgrasses (*Agrostis gigantea* Roth, *Agrostis capillaris* L.)
15. Kammgras, crested dogstail (*Cynosurus cristatus* L.)
16. Futterrespen, bromes (*Bromus sitchensis* Trin., *Bromus stamineus* Desv.)

III. Crops for Green Fodder

1. Grünhafer, oats (*Avena sativa* L.)
2. Grünroggen, rye (*Secale cereale* L.)
3. Kreuzblütler *Brassicaceae*

Description

The varieties in this „List of Recommended Varieties of Forage Plants” are described as follows:

- **variety name, applicant** (name, country)
- **ploidy** (2n = diploid, 4n = tetraploid)
- **first year of recommendation**
- **index of earliness (not for all species)**
It describes the beginning of the heading in grasses and of flowering in *leguminosae*. For grasses this stage is reached when 10 heads (ears, panicles) per m² become visible. The first digit of the index describes the month, the second the decade. The characters ‚a’ and ‚b’ indicate the first and second half of the decade, respectively. The indices are based on earliness observations made at Agroscope in Changins (430 m a.s.l.).
Examples:
- perennial ryegrass ARARA:
index of earliness 43b = beginning of heading 26 - 30 April
- perennial ryegrass SORAYA:
index of earliness 61a = beginning of heading 1 - 5 June
- **marks for the most important variety characteristics** (for description see table 1)

Table 1. Description of Characteristics

marks	juvenile development / spring development	leaf- / shoot-structure	yield / digestible organic matter (DOM)/ dry matter percentage	competitive ability / persistence / resistance against pathogens / growth at higher altitudes 800-1000 m asl
1	very fast	very smooth	very high	very good
2	fast - very fast	smooth - very smooth	high - very high	good - very good
3	fast	smooth	high	good
4	medium - fast	medium - smooth	medium - high	medium - good
5	medium	medium	medium	medium
6	slow - medium	coarse - medium	low - medium	bad - medium
7	slow	coarse	low	bad
8	very slow - slow	very coarse - coarse	very low - low	very bad - bad
9	very slow	very coarse	very low	very bad

Glossary

Anbaueignung für höhere Lagen = growth at higher altitudes

Antragssteller = applicant

Auflaufen nach der Saat = seedling emergence

Ausdauer = persistence

Bakterienwelke = *Xanthomonas translucens* pv. *graminis*

Beschaffenheit des Blattes = leaf structure

Beschaffenheit des Stengels = shoot structure

Blattkrankheiten = leaf diseases

Entwicklung im Frühjahr = spring development

Ertrag = yield

Ertrag 1. Schnitt = yield of 1st harvest

Futterqualität = forage quality

Gesamtertrag = total yield

in der Sortenliste seit = recommended since

Indexzahl für Frühreife = index of earliness

Jugendentwicklung = juvenile development

Kleekrebs = *Sclerotinia trifoliorum*

Kleeschwärze = *Cymadothea trifolii*

Konkurrenzskraft = competitive ability

Lagerung = lodging

Luzernewelke = *Verticillium albo-atrum*

mittel = medium

Ploidie = ploidy

Resistenz = resistance

Ringflecken = *Stemphylium sarcinaeforme*

Rost = rust

Schneefäulepilze = *Microdochium nivale* and *Tiphula* spp.

Standfestigkeit = resistance to lodging

Stengelbrenner = *Kabatiella caulivora* and *Colletotrichum trifolii*

Toleranz = tolerance

Trockensubstanzgehalt = dry matter percentage

Überwinterung = winter hardiness

Verdauliche organische Substanz (VOS) = digestible organic matter (DOM)

Verdaulichkeit (VOS) = digestible organic matter (DOM)

Wiederaustrieb = regrowth

Wintereinflüsse = winter damage

Wuchstyp = growth-type