



AVON MIX - THE ORIGINAL LUPIN TRITICALE MIX

A Spring Triticale/ DIETA White Lupin Wholecrop Mix

This is our best-selling mix containing 38kg/acre of White lupin and 37kg/acre of Spring Triticale. Tried and tested since 2003, this mix has become popular on units looking for a high-bulk, high-protein forage. Some growers have seen yields on par with maize at 20 tonnes per acre, but with the protein, energy, and palatability that has allowed a reduction in concentrate use by up to 50%.

Agronomy

The Avon mix can be grown on low input systems, organic systems, or on a higher input basis. Spray pre-emergence with 3lt/Ha Stomp, apply from 20 - 80kg/Ha Nitrogen, and use growth regulators and fungicides depending on land and desired results. Organic growers may use organic manures and may well undersow the crop.

- Sowing in late March - Early May.
- Very competitive mix.
- Low input & low pest or disease threat.
- Wholecrop harvest in late August, giving use of the land for the following winter in grass, catch-crops, or winter cereal.
- Ideal for both Organic and Conventional growers.
- Can be under-sown with westerwold or Italian ryegrass for extra grass in the Autumn and following spring.

Yield & Analysis

- High Yielding 14 - 19 tonnes/ acre
- DM 25 - 30%
- D Value 70+
- ME 11.0 - 12.0
- CP 13 - 17%
- STARCH 20+%



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In 2003, we began experimenting with lupin and spring triticale mixtures. Since then the concept has evolved, with a number of different mixes being developed by Soya UK for different situations. However, the original Avon mix remains the most popular.

■ White Lupins

In 2001, Soya UK introduced spring-sown white Lupin brought this excellent crop within reach of the UK farmer. Previously, only spring blue, and winter white Lupins were available, both of which had significant drawbacks for wholecropping. The introduction of Dieta in 2001, has changed the face of UK lupin production, and the variety now accounts for over 70% of the entire national Lupin area, with it accounting for 60% of the forage lupin area.

White Lupins are an ideal crop for the production of home-grown protein as they will grow in any part of the UK on virtually any soil types. The crop is also easy to grow, low input, and very suitable for both wholecropping and combining. They make a high quality, palatable silage, and are an excellent protein source. Pound for pound, Lupin protein is **better than soya protein** in its quality and amino-acid profile, with high levels of UDP (bypass) protein.

■ Spring Triticale

The introduction of a Spring triticale to the UK in 2003 brought this excellent crop within reach of many more UK livestock farmers who prefer to plant crops in the Spring. Triticale is an excellent cereal feedstuff with high levels of protein and Lysine. The crop is low input, easy to grow, and very suitable for both wholecrop and combining.

Triticale grain typically has an ME of 13.8 which compares to barley with an ME of 13.3, oats 12.1, and wheat 13.6. On protein, the crude protein content is usually 13.1, and compares to barley at 12.9, oats at 10.5, and wheat at 12.3. In addition, triticale protein is particularly high in lysine, which makes it particularly suitable for milk and meat production.

The Avon mix is a mixture of these two top ingredients, and has established lupin / triticale mixes as the most valuable new forage crop to arrive in the UK for many years.

It is ideal for beef and dairy cattle of all ages, and is **one of the most effective ways of producing soya-quality proteins on UK livestock farms.**

Dieta, the UK's
No. 1 Lupin

+

Spring Triticale

=

The Avon mix

AGRONOMY SUMMARY FOR THE AVON MIX

Yield: 14 -19 fresh-weight tonnes per acre
Crude Protein content: 13 - 17%
Sowing date: 31st March - Early May
Harvest: End of August
pH range: 5 - 7.9
Seed Rate: 38kg Lupin + 37kg Triticale = 75kg/acre (185kg/Ha)
Delivered in 25kg or 500kg packs.

Crop height: 3 - 5 feet high
Seed price: Chemical dressed, Delivered mainland UK with rhizobium inoculant.
(late orders, small orders & remote deliveries by arrangement).
Undressed seed is available for organic growers to use with a
derogation

£60.00 per acre

Fertiliser:

Nitrogen 70kg/ha (Full arable rates where slurry/FYM has not been applied),
split application- 50kg at tillering (growth stage 15) + 20kg at stem
extension (growth stage 31)

P & K (if required) 50kg/ha of each, applied in seed bed

Sprays:

Herbicides Standard pre-em with Stomp and shut the gate. Post-em options
possible. Alternatively, under-sow or use no chemical at all on clean
land. Please refer to advice before spraying the Avon mix.

Fungicide (if required)

Growth Regulator

Caramba

It is essential to use a regulator where higher nitrogen rates have been
applied. Moddus, Chlormequat and Terpal have all been used. Most
effective stage is at GS30-32 on the Triticale (early stem elongation).
This has effect of shortening the crop for lower bulk, but higher quality
and reduces lodging.

Remember ...

- For all forage Lupins, and particularly for Lupin-triticale, **it is imperative to use the correct varieties of Lupin.**
- Growers should pick an agronomy strategy and stick to it, so if you use the full fertilizer rates, you should also use the growth regulators.
- Remember the value of the nitrogen legacy from the Lupins (50kg/Ha N). This nitrogen can be put to good use by the following crop.
- The Avon mix can also be under-sown and this technique has proven very successful on a number of units, giving a fresh new sward with vigorous autumn growth due to the high nitrogen legacy from the Lupins.

Dieta, the UK's
No. 1 Lupin

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Spring Triticale

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The Avon mix

If you have any queries or would like further information please contact us on **02380 696922**