


Dashboard

Plant characteristics & explanation.

BRIEF DESCRIPTION	FIELD PICTURE
<p>Registration name: Invegrow 2</p> <p>Species: Cannabis Sativa L.</p> <p>Category: Sativa hybrid.</p> <p>Variety: IG-dual2</p> <p>Genotype: dioecious</p> <p>Applications: Fibre/Grain/CBD</p> <p>Secondary applications: Hurd and fiber.</p>	

Laboratory analysis

- This variety is 0.6% THC and 1.8% CBD.
- Seed does not contain cannabinoids, so no CBD or THC etc in the seed.
- This hemp seed variety has a rich omega 3 & 6 and high protein profile very suitable for hemp foods. Hemp seed oil extraction rate is 28%.

Original description: This variety has been developed in Asia and grown in both the Northern and Southern hemisphere. It is dioecious and so male and female are on separate plants. This is very similar to IG-dual1 but has a tendency to branch more.

Defined periods:

- When grown for textile grade fibre, it takes approximately 110 days to harvest fibre for woven applications.
- When grown for dual purpose (grain/seed and fibre for NON-woven applications), it takes approximately 160 days to fully develop and mature the seeds.

Climate adaptability: This variety is predominantly for open field fibre and grain production. It is suited to Malawi's day length and will grow to around 4 metres when planted with the December rains. In the winter it will grow to around 2.5 metres because of shorter day length.

Details: This strain is best planted in December. It does not need supplementary lighting. It has a lower CBD content but the residue flower after seeding could be processed into hemp-derived CBD extract to add to the profit margin.

Depending on how it is grown, it can be made into fibre for woven applications (clothing), or fibre for non-woven applications (paper, rope etc). The fibre for woven applications is grown at a higher seed rate to encourage upward growth.

Fibre for non-woven applications is normally produced together with the grain, is planted at a lower seed rate to encourage branching, and takes longer to harvest. However you get more core product and by-products.

Description for the differentiation process:

- Sativa behaviour with a longer vegetative period.
- Natural tendency to grow tall before wide unless planting space allows branching.
- Dioecious means that male and female parts are on separate plants and will not self-pollinate. Therefore males are needed in the field to pollinate the females to produce seed. Male plants are very distinct and easy to identify.
- If growing for textile-grade fibre, no pollen is needed as harvest is usually before the onset of flowers.
- Broad fan leaves.
- Medium internodal distance.
- Dark green colour when healthy.

Tips for cultivating IG-dual2

- For textile-grade fibre, plant at a higher density to maximise the number of plants with long, thin, strong stalks. Competition encourages this growth.
- Being dioecious, you need males to pollinate the females for grain production.
- Not advisable to grow this variety for flowers only.
- In a dual-crop field, you could harvest the males after pollinating leaving the females to seed. These stalks get processed into textile grade fibre. The female plants will continue to seed.
- When growing for grain, this variety is tall and may need to hang the plants for some seed maturation to occur.
- Plant in mid to late December so that harvesting for textile-grade fibre is at end-March and grain in June when it is dry. This means less mould.

Main pests and diseases to face in Malawi:

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|--------------|------------------|-------------|
| - Aphids | - Botrytis | - Root rot |
| - Army worm | - Powdery mildew | - Termites |
| - Alternaria | - Red spyder | - White fly |

Pricing of IG-dual2

For 2021, this variety is sold landed in Malawi at \$12-15/kg. Seed requirements vary depending on product:

- Fibre for woven applications: up to 75kg/ha.
- Dual (fibre and grain) production: between 25-35kg/ha

This price is exclusive of air freight costs in case the client wishes to air freight the consignment to Malawi. Pricing can be discussed based on volumes.

Estimated harvesting yields

Fibre for woven applications: around 12 tons stalk per hectare of which 4 tons fibre and 8 tons is hurd.

Dual crop: around 9tons stalk per hectare of which 3 tons fibre and 6 tons hurd.

**Note that we do not accept legal responsibility of yields and these are indicative only*

Terms and conditions

The customer is not allowed to breed, propagate or multiply any of the seeds or clones purchased without the prior authorization of the supplier.



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