

cereal crops



- Increases vigour of root and shoot growth
- Improves nutrient uptake
- Increases culm diameter and reduces lodging
- Improves resistance during drought conditions
- Produces higher quality grain and yields



Kelpak

Kelpak is a natural biostimulant manufactured from the brown kelp *Ecklonia maxima*, found on the west coast of South Africa. Kelpak is produced using a cold cellular burst extraction method to preserve the delicate compounds in the cell sap. The end product significantly improves overall plant growth and crop yield.

A global leader in seaweed products for over forty years





Kelpak seed application on cereals

| COUNTRY | NO. OF TRIALS | CROP | RATE | APPLICATION | AVE YIELD INCREASE |
|--------------|---------------|-------|-------------------------|------------------------------|--------------------|
| Mid-west USA | 2 | wheat | 4 ml/kg | Seed dressing | 9% |
| Mid-west USA | 4 | maize | 4 ml/kg | Seed dressing | 5%* |
| South Africa | 1 | wheat | 5 ml/kg | Seed dressing | 7% |
| South Africa | 2 | maize | 5 ml/kg | Seed dressing | 8% |
| Brazil | 4 | maize | 2.5 ml/kg | Seed dressing | 4%* |
| South Africa | 2 | maize | 5 ml/kg + 2 L/ha | Seed dressing + foliar V4 | 15% |
| Brazil | 4 | maize | 2.5 ml/kg + 0.5 L/ha | Seed dressing + foliar V6 | 7%* |
| South Africa | 2 | maize | 1 L/ha | In-furrow | 22% |
| Mid-west USA | 12 | maize | 1 L/ha | In-furrow | 4%* |

*high yields >11 t/ha

Kelpak foliar application on cereals

| COUNTRY | NO. OF TRIALS | CROP | RATE (L/ha) | TIMING BBCH | AVE YIELD INCREASE |
|--------------|---------------|--------------|-------------|-------------|--------------------|
| South Africa | +20 | wheat | 2 | 13-15 | 11% |
| Zimbabwe | 6 | wheat | 2 | 13-14 | 6% |
| Australia | 4 | wheat | 2 | 13-15 | 10% |
| Poland | 4 | wheat | 1.5-2 | 14 or 32 | 10% |
| UK | 2 | wheat | 2 | 14 | 8% |
| South Africa | 7 | maize | 2 | 14-15 | 13% |
| South Africa | 1 | silage maize | 2 | 15 | 23% |
| Poland | 2 | silage maize | 1.5-2 | 32 | 25% |
| South Africa | 7 | barley | 2 | 13-15 | 15% |
| Poland | 2 | barley | 1.5-2 | 13-14 | 10% |
| UK | 1 | barley | 2 | 13-14 | 17% |

RECOMMENDED APPLICATION RATE

Seed dressing Apply 5 ml/kg seed prior to planting
or

In-furrow 1 L/ha applied as band spray
and/or

Foliar Spray 2 L/ha at 4 to 5 leaf stage

Kelpak is manufactured
using the unique cold
Cellburst extraction process



Kelpak