



MAXYIELD APPLICATION PROTOCOL FOR RICE

Professional Soil Improvement & Nutrition Program

Crop: Rice (*Oryza sativa*)

Product: Maxyield Organic Soil Conditioner (Humic Acid Granule)

1. Seedbed / Nursery Preparation

1. Nursery Preparation

Recommended Rate

- **Mix Maxyield with the nursery fertilizer at approximately 1:5 ratio, or distribute uniformly through the prepared seedbed soil.**

Application Method

Prepare a fine, level seedbed and mix Maxyield uniformly into the root-zone soil or with the normal nursery fertilizer before sowing. Maintain adequate moisture for uniform seedling establishment.

2. Rice Transplanting Application

2. Field Planting Application

Recommended Rate

Area	Maxyield Rate
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Per Acre	10 kg
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Per Hectare	25 kg
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Application Method

With Chemical Fertilizer (Recommended)

Mix Maxyield with basal fertilizer at approximately 1:5 ratio.

Example per acre:

- 10 kg Maxyield
- Approximately 50 kg basal fertilizer, or according to the farmer's soil-test and fertilizer program

Apply evenly during transplanting so Maxyield is distributed through the active root zone. Avoid concentrated fertilizer contact with young roots.



With Organic Manure or Compost

Maxyield can also be combined with well-decomposed farmyard manure or compost where this forms part of the farmer's normal fertility program.

3. Topdressing / Rice Growing Application

3. Topdressing Application

Recommended Rate

Area	Maxyield Rate
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Per Acre	10 kg
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Per Hectare	25 kg
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Timing

Apply 10 kg Maxyield per acre together with the normal topdressing fertilizer. Apply during active vegetative growth/tillering. Where the production cycle or ratoon crop continues for an extended period, the Maxyield flyer recommends regular side dressing every 2–3 months.

Application Method

Mix Maxyield with the topdressing fertilizer at approximately 1:5 and distribute evenly across the field or within the active root zone. Coordinate application with the farmer's normal water and fertilizer management.

Benefits of Maxyield in Rice

- Improves soil structure and supports a healthier root-zone environment.
 - Promotes soil moisture retention.
 - Promotes stronger root mass and root development.
 - Supports vegetative growth, tillering and nutrient uptake.
 - Helps reduce crop stress associated with fluctuating moisture conditions.
 - Supports better grain filling and heavier panicles.
 - Supports improved yield and grain quality when combined with sound soil, water and fertilizer management.
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Optimal Soil pH for Rice

Rice tolerates a relatively wide pH range, but the optimum depends on whether production is upland or flooded/irrigated.

Soil Condition	pH Range
Preferred - upland rice	5.5 – 6.5
Flooded/irrigated rice	Site-specific; flooding changes soil pH
Acidic concern	< 5.5
Alkaline concern	> 7.5 (variety/site dependent)

For Kenyan upland rice, published guidance commonly places the preferred range around pH 5.5–6.5. Under flooded paddy conditions, soil chemistry changes after flooding, and suitable field pH can be higher. Soil testing is therefore recommended before deciding on any pH correction.

Soil pH and Expected Yield Performance

Soil pH	Relative Yield (Maxyield field guide)
6.5	100% (Optimal)
6.0	95%
5.5	85%
5.0	70%
4.5	50%
4.0	30%

The Maxyield rice flyer includes a field guide relating soil pH to relative yield. The figures below reproduce that Maxyield guide and should be treated as indicative field guidance rather than a universal yield guarantee.

Recommended Maxyield Program According to Soil pH

Soil pH	Recommended Maxyield Rate
5.5 – 6.5	Standard Maxyield program
5.0 – 5.4	Standard program + soil test; assess acidity and nutrient constraints
Below 5.0	Soil test essential; combine Maxyield with appropriate agronomic pH correction where recommended

Standard Application Program

Growth Stage	Application Rate
Seedbed / Nursery	Mix with nursery fertilizer approximately 1:5
Transplanting	10 kg/acre (25 kg/ha), mixed with fertilizer approximately 1:5
Topdressing	10 kg/acre (25 kg/ha), mixed with fertilizer approximately 1:5