



RICE

Lab results illustrates the results of Orykta® application on a more humid climate with rice as a crop. Owners were seeking to reduce petrochemical application without affecting yield.

Results after applying Orykta®:

- ✓ Increased yield
 - Control field = 105 bushels per acre
 - With Orykta® = 125 bushels per acre
- ✓ Decreased production costs
 - Control field = cost of \$240 per acre
 - With Orykta® = cost of \$95 per acre
- ✓ Increased nutrient levels

Nutrient	Control	With Orykta® @350 tons/acre
pH	4.4	6.7
EC	1.1	1.9
Saturation %	21	29
Ammonium Nitrogen	5	13
Nitrate Nitrogen	11	21
Phosphorus	13	27
Potassium	212	268
Calcium	1630	2130
Magnesium	162	195
Zinc	0.87	5.43
Copper	0.33	1.88

**STUTT GART,
ARKANSAS**

**ANALYSIS
PERFORMED BY
AG-LABORATORY,
INC**

**RICE VARIETY:
LABELLE LONG
GRAIN**



RICE

Chinese Academy of Agricultural Sciences (CAAS) conducted series of **INDEPENDENT** tests applying Orykta® to various types of crops grown in a wide range of different regions and soils throughout China.

Production increase rate of 12 crops reached R (remarkable) level of the national standard (>5%), and some even reached VR (very remarkable) level (>15%).

Baseline Plot (Control Group): normal fertilizer usage

Orykta® Plot: combine Orykta® with reduction in normal fertilizer usage by 30-40%.

Summary of Results:

Location	Soil Type	Yield Increased over Control Group
Hebei	Rice paddy soil	13.2 - 31.2%
An Hui	Rice paddy soil pH 5.28	5.03 - 9.83%

Orykta® vs Control Group

- ✓ More productive tiller
- ✓ Higher maturity rate
- ✓ Increased weight of 1000 grains
- ✓ Early tiller date – 4 days ahead

**HEBEI PROVINCE
CHINA**

**ORYKTA® IS 1ST
FOREIGN MINERAL
SOIL AMENDMENT
REGISTERED IN
CHINA**

**AN HUI PROVINCE
CHINA**



RICE

Testing Authority: Centre for Promotion of Science and Technology of the National Supply Coordination Department Peoples Republic of China

Objective: To determine the effectiveness of (a) using Orykta[®] to amend soils (b) production rates of certain crops grown on soils amended with Orykta[®]; and (c) establish guidelines for commercial use of Orykta[®].

Experiment Conditions: 5 mu with Orykta[®]; 5 mu of Control Plots without Orykta[®]
5mu= 2 HA (hectares); 1mu = 0.165 acre, or 0.4 HA

Method: Prior to sowing seeds, Orykta[®] was spread on the surface of the soil before it was plowed. Rate of Orykta[®] application: 325 kg per HA (130 kg per mu).

Summary of Results:

- ✓ Using Orykta[®] increased production. Every mu of plot using Orykta[®] increased by 5.7% when compared with plots without Orykta[®].
- ✓ During harvest period, the stems of the crops were green and did not age prematurely nor show any slanting effect.

HEBEI PROVINCE
CHINA

CENTRE FOR
PROMOTION OF
SCIENCE AND
TECHNOLOGY OF
THE NATIONAL
SUPPLY
COORDINATION
DEPARTMENT