

## Experimental design of the field treatment

Design: CRBD at slope position level (n=3 genotypes x 5 level fertilizer application x 4 replications).

Slope class: Hill slope

Farmer 1

<b>Diga-01</b> NPKS <b>Urji</b> NPKS+Zn+ Fe <b>Meba</b> NPKS+Zn	<b>Meba</b> 30%NPKS <b>Diga-01</b> NPKS+Zn+ Fe <b>Urji</b> NPKS+Fe	<b>Diga-01</b> NPKS+Zn <b>Urji</b> 30%NPKS <b>Meba</b> NPKS+Fe	<b>Urji</b> NPKS <b>Meba</b> NPKS+Zn+ Fe <b>Diga-01</b> 30%NPKS	<b>Meba</b> NPKS <b>Diga-01</b> NPKS+Fe <b>Urji</b> NPKS+Zn
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Farmer 2

<b>Meba</b> NPKS+Zn+ Fe <b>Diga-01</b> NPKS <b>Urji</b> NPKS+Zn	<b>Diga-01</b> NPKS+Fe <b>Urji</b> NPKS <b>Meba</b> 30%NPKS	<b>Meba</b> NPKS+Fe <b>Urji</b> 30%NPKS <b>Diga-01</b> NPKS+Zn+ Fe	<b>Diga-01</b> NPKS+Zn <b>Meba</b> NPKS <b>Urji</b> NPKS+Zn+ Fe	<b>Urji</b> NPKS+Fe <b>Diga-01</b> 30%NPKS <b>Meba</b> NPKS+Zn
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Farmer 3

<b>Urji</b> NPKS+Zn <b>Meba</b> NPKS <b>Diga-01</b> NPKS+Zn+ Fe	<b>Meba</b> 30%NPKS <b>Urji</b> NPKS+Zn+ Fe <b>Diga-01</b> NPKS+Fe	<b>Diga-01</b> 30%NPKS <b>Urji</b> NPKS <b>Meba</b> NPKS+Zn	<b>Meba</b> NPKS+Zn+ Fe <b>Diga-01</b> NPKS <b>Urji</b> NPKS+Fe	<b>Diga-01</b> NPKS+Zn <b>Meba</b> NPKS+Fe <b>Urji</b> 30%NPKS
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Farmer 4

<b>Diga-01</b> 30%NPKS <b>Diga-01</b> NPKS+Zn <b>Meba</b> 30%NPKS	<b>Urji</b> NPKS <b>Meba</b> NPKS+Zn+ Fe <b>Urji</b> NPKS+Zn+ Fe	<b>Urji</b> 30%NPKS <b>Diga-01</b> NPKS+Zn+ Fe <b>Meba</b> NPKS+Zn	<b>Meba</b> NPKS+Fe <b>Urji</b> 30%NPKS <b>Diga-01</b> NPKS+Fe	<b>Diga-01</b> NPKS <b>Urji</b> NPKS+Fe <b>Meba</b> NPKS
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Slope class: Foot slope

Farmer 1

<b>Diga-01</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Urji</b>	<b>Meba</b>
NPKS	30%NPKS	NPKS+Zn	NPKS	NPKS
<b>Urji</b>	<b>Diga-01</b>	<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>
NPKS+Zn+ Fe	NPKS+Zn+ Fe	30%NPKS	NPKS+Zn+ Fe	NPKS+Fe
<b>Meba</b>	<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Urji</b>
NPKS+Zn	NPKS+Fe	NPKS+Fe	30%NPKS	NPKS+Zn

Farmer 2

<b>Meba</b>	<b>Diga-01</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Urji</b>
NPKS+Zn+ Fe	NPKS+Fe	NPKS+Fe	NPKS+Zn	NPKS+Fe
<b>Diga-01</b>	<b>Urji</b>	<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>
NPKS	NPKS	30%NPKS	NPKS	30%NPKS
<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Urji</b>	<b>Meba</b>
NPKS+Zn	30%NPKS	NPKS+Zn+ Fe	NPKS+Zn+ Fe	NPKS+Zn

Farmer 3

<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Meba</b>	<b>Diga-01</b>
NPKS+Zn	30%NPKS	30%NPKS	NPKS+Zn+ Fe	NPKS+Zn
<b>Meba</b>	<b>Urji</b>	<b>Urji</b>	<b>Diga-01</b>	<b>Meba</b>
NPKS	NPKS+Zn+ Fe	NPKS	NPKS	NPKS+Fe
<b>Diga-01</b>	<b>Diga-01</b>	<b>Meba</b>	<b>Urji</b>	<b>Urji</b>
NPKS+Zn+ Fe	NPKS+Fe	NPKS+Zn	NPKS+Fe	30%NPKS

Farmer 4

<b>Diga-01</b>	<b>Urji</b>	<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>
30%NPKS	NPKS	30%NPKS	NPKS+Fe	NPKS
<b>Diga-01</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Urji</b>	<b>Urji</b>
NPKS+Zn	NPKS+Zn+ Fe	NPKS+Zn+ Fe	30%NPKS	NPKS+Fe
<b>Meba</b>	<b>Urji</b>	<b>Meba</b>	<b>Diga-01</b>	<b>Meba</b>
30%NPKS	NPKS+Zn+ Fe	NPKS+Zn	NPKS+Fe	NPKS