

# ACLBC



**African Cereal and Legume  
Breeding Consortium**

**CONTACT :**

Dr Solomon Gizaw, Head TAAT Clearinghouse  
([taat-africa@cgiar.org](mailto:taat-africa@cgiar.org))

Dr Yacouba Diallo, AFSTA Secretary General ([yacouba@afsta.org](mailto:yacouba@afsta.org))

Mr Geoffrey Nsofon, ACLBC Lead ([g.nsofon@cgiar.org](mailto:g.nsofon@cgiar.org))



**African Cereal and Legume  
Breeding Consortium (ACLBC)**

## **BIOPHYSICAL CHARACTERISTICS OF WHEAT VARIETIES**



**AFRICAN CEREAL & LEGUME BREEDING CONSORTIUM (ACLBC)**

## Biophysical Characteristics of KALRO Wheat Varieties

Institution	KALRO	KALRO	KALRO	KALRO	KALRO	KALRO	KALRO	KALRO	KALRO	KALRO
Commodity (Crop)	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat
Variety	Kenya Jacana	Kenya Hyrax	Kenya Kasuku	Kenya Turaco	Kenya Pweza	R1798 (Candidate for Release)	R1797 (Candidate for Release)	Njoro BW 2	Kenya Impala	Kenya Falcon
Days to Heading	67-69	65-69	67-70	68-72	61-66	67-70	68-71	74-79	72-75	71-73
Maturity	Medium (110-130 days)	Medium (110-120 days)	Early (90-100 days)	Medium (110-120 days)	Early (90-100 days)	Medium (110-120 days)	Medium (110-120 days)	Late (140-160 days)	Late (120-130 days)	Medium (110-120 days)
Cropping season	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)	Main (March, April, May)
Soil type	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5	Well drained loamy soil of pH between 5.5 -7.5
Rainfed/Irrigated crop	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation	Rainfed. Likely suitable for Irrigation
Agro-ecological zone and rainfall	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben	LH2,LH3,UH2,UH3. Examples:Njoro, Mau Narok, Upper Narok, Timau, Oljororok, Kinamba, Moiben
Growth habit	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Plant height (tall, medium and short)	Medium	Medium	Short	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Lodging Tolerance	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
Yield potential	6-8t/ha	6.5-7.5t/ha	6.5-7.5t/ha	6.0-8.0t/ha	6.5-7.5t/ha	7.0-8.0t/ha	6.5-7.5t/ha	6.0-7.0t/ha	6.0-7.0t/ha	6.5-8.0t/ha
Grain Colour	Red	Red	Red	White	Red	Red	White	Red	Red	Red
Grain Texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard
Grain Protein	>12%	>12%	>12%	>12%	>12%	>12%	>12%	>12%	>12%	>12%
1000 Kernel Weight	>35g	>35g	>35g	>35g	>35g	>35g	>35g	>35g	>35g	>35g
Test Weight	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl	>70kg/hl
Resistance to Stem Rust	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Resistance to Yellow Rust	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Tolerance to Russian Wheat Aphid	High	High	High	High	High	High	High	Moderate	High	Moderate