

Akitakomachi R – Rice Variety Specification

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Bottom line

Akitakomachi R (あきたこまちR) performs essentially the same as standard Akitakomachi in the field. Yield is 2% lower (57.3 vs 58.8 kg/a) and grain quality scores slightly better (1.8 vs 2.0). All resistance ratings, heading date and plant type are identical.

Background (not from the source table): Akitakomachi R is the low-cadmium-uptake version of Akitakomachi, and Akita Prefecture has been switching its Akitakomachi production to it from the 2025 crop.

Variety profile

Attribute	Akitakomachi R	Akitakomachi (reference)
Variety name (品種名)	あきたこまちR	あきたこまち
Maturity class (早晩性)	Early (早生)	Early (早生)
Plant type (草型)	Panicle-number leaning (偏穂数型)	Panicle-number leaning (偏穂数型)

Disease and stress resistance

Both varieties rate identically. Weak points are panicle blast, bacterial leaf blight and lodging.

Trait	Akitakomachi R	Akitakomachi
Blast resistance genes (遺伝子型)	Pia, Pii	Pia, Pii
Leaf blast (葉いもち)	Moderate (中)	Moderate (中)
Panicle blast (穂いもち)	Somewhat weak (やや弱)	Somewhat weak (やや弱)

Trait	Akitakomachi R	Akitakomachi
Bacterial leaf blight (白葉枯)	Somewhat weak (やや弱)	Somewhat weak (やや弱)
Lodging resistance (耐倒伏性)	Somewhat weak (やや弱)	Somewhat weak (やや弱)
Cold tolerance, sterility type (耐冷性・障害型)	Moderate (中)	Moderate (中)
Pre-harvest sprouting (穂発芽性)	Somewhat resistant (やや難)	Somewhat resistant (やや難)
High-temperature ripening (高温登熟性)	Moderate (中)	Moderate (中)

Growth and morphology

Akitakomachi R heads on the same day and matures one day earlier, with a marginally shorter plant.

Trait	Akitakomachi R	Akitakomachi
Heading date (出穂期)	Jul 27	Jul 27
Maturity date (成熟期)	Sep 5	Sep 6
Culm length (稈長, cm)	76.8	77.1
Panicle length (穂長, cm)	17.3	17.6
Panicles (穂数, per m ²)	439	433

Yield and grain quality

Yield is 98% of standard Akitakomachi; grain quality is slightly better. Quality is scored 1 to 9, where lower is better.

Trait	Akitakomachi R	Akitakomachi
Yield (収量, kg/a)	57.3	58.8
Yield (kg/10a, converted)	573	588

Trait	Akitakomachi R	Akitakomachi
Yield index (standard = 100)	98	100
1,000-grain weight (千粒重, g)	22.6	22.8
Quality score (品質, 1-9)	1.8	2.0

Cultivation notes

- **Brown spot (ごま葉枯病):** Source flags this risk in sandy fields showing autumn decline (秋落ち), where late-season nutrient depletion weakens the crop.
- **Lodging:** Rated somewhat weak; avoid excess nitrogen.
- **Blast and leaf blight:** Panicle blast and bacterial leaf blight are somewhat weak; plan preventive control.
- **Manganese (not from source table):** The low-cadmium trait also reduces manganese uptake. Worth checking soil Mn in low-Mn fields; confirm against prefecture guidance.

Source

All figures and ratings are transcribed from the variety comparison table provided directly by the producing farmer. Trial location and year are not stated in the table. Background notes on low-cadmium breeding and manganese are general knowledge, approximate, and should be verified before use in sales material.