

GATOR H₂O[®]

HERBICIDE

Tech Note

Gator H₂O for Early Broadleaf Weed Control in Rice

Gator[®] H₂O is a new early post-emergent herbicide for broadleaf weed control in rice. The formulation has been designed for optimal dispersion in water whilst maintaining high crop safety.

Gator H₂O contains 240 g/L CARFENTRAZONE-ETHYL which introduces a different mode of action (Group G) for early post-emergence broadleaf weed control in rice, allowing growers to rotate and maintain their chemistry options.

Gator H₂O is a low-use-rate herbicide that is quickly absorbed through the foliage of plants and works rapidly to control broadleaf weeds. Activity is observed within 1 to 4 days after treatment, with the foliage of susceptible weeds showing signs of necrosis (yellowing) and later death.

Transient symptoms may appear on the crop in the form of leaf yellowing on submerged leaves and bronzing on exposed leaves. This has not shown to have an effect on yield.

The product rapidly degrades in the soil and does not provide residual control of weeds (thus subsequent germinations will not be controlled). The benefit to growers is fast weed control and no crop rotational restrictions.

Application should target small actively growing weeds.

Application & Water Management

- Apply to **permanent flood water** by dripper applicator (SCWIIRT method) on tractor, 4 wheel agricultural motorbike or aircraft; or by boom spray application using ground rig or aircraft (including bickley boom).
- When using GATOR H₂O alone apply at or beyond the 2 leaf rice stage, up to the 4 leaf rice stage.
- When using GATOR H₂O in tank mix with Londax apply at or beyond the 2.5 leaf rice stage, up to the 4 leaf rice stage.
- It is essential to lock up bays 1 day prior to application and hold water for at least 5 days after application.
- To optimise weed control and minimise crop injury ensure there is sufficient water to cover the crop at application - ideally 5 to 8 cm on the high side of the bay, based on 6 to 10 cm fall across the rice bay. Normal water levels should be maintained following the 5 day lock up period.
- Do not drain rice water into regional drains, within the withholding period after GATOR H₂O application. To broaden weed control spectrum and to control hard to kill weeds (eg. Starfruit) tank mix GATOR H₂O with Londax[®] DF.

Directions For Use

Crop	Target Weeds	Rate mL/ha		Weed Stage	Critical Comments
		GATOR H ₂ O	GATOR H ₂ O + Londax DF		
Rice	Arrowhead <i>Sagittaria montivindensis</i>	420	630 + 50	Up to 6 leaf	Apply to permanent flood water by dripper applicator (SCWIIRT method) on tractor, 4 wheel agricultural motorbike or helicopter; or by boom spray application using ground rig or aircraft.
	Dirty Dora <i>Cyperus difformis</i>	630 (Suppression only)	630 + 50	Up to 4 leaf	When using GATOR H ₂ O alone apply at or beyond the 2 leaf rice stage, up to the 4 leaf rice stage. When using GATOR H ₂ O in tank mix with Londax apply at or beyond the 2.5 leaf rice stage, up to the 4 leaf rice stage.
	Star fruit <i>Damasonium minus</i> (Where ALS resistant Starfruit populations occur, this mix may only give suppression)	-	630 + 50	Up to 4 leaf	Lock up bays 1 day prior to application and hold water for at least 5 days after application. Refer to general instruction for application and water management details. To broaden weed control spectrum and to control hard to kill weeds (eg. Starfruit) tank mix GATOR H ₂ O with Londax DF.

Compatibility:

GATOR H₂O is compatible with the grass herbicide Magister®. GATOR H₂O can be tank mixed with Londax DF for broadened aquatic weed control. Do not tank mix GATOR H₂O with oil/surfactant blends, as excessive crop injury may occur.

Restrains:

- DO NOT apply GATOR H₂O to the long grain rice varieties Kyeema and Doongara.

Withholding Periods:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED

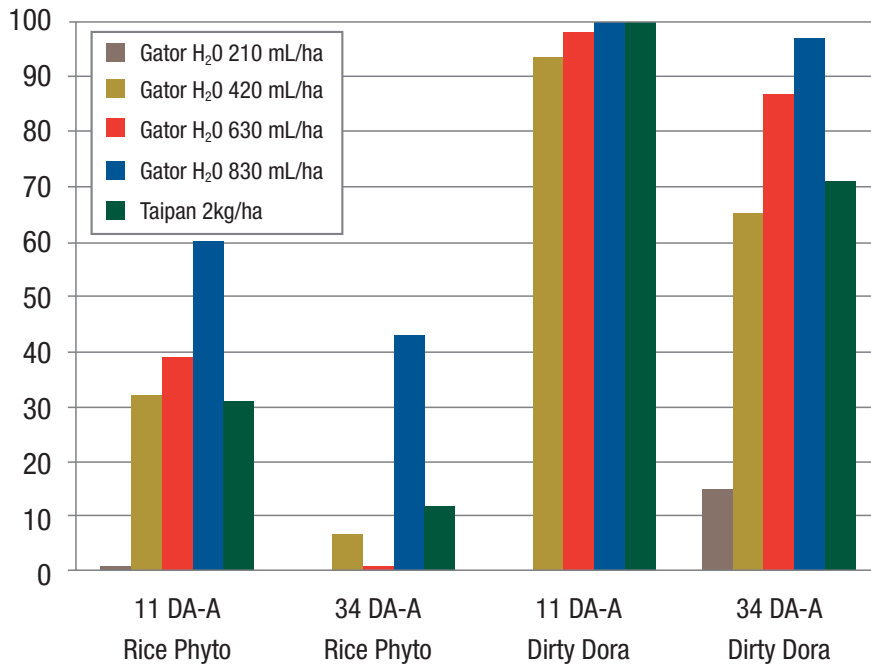
GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 MONTHS AFTER APPLICATION

Re-entry

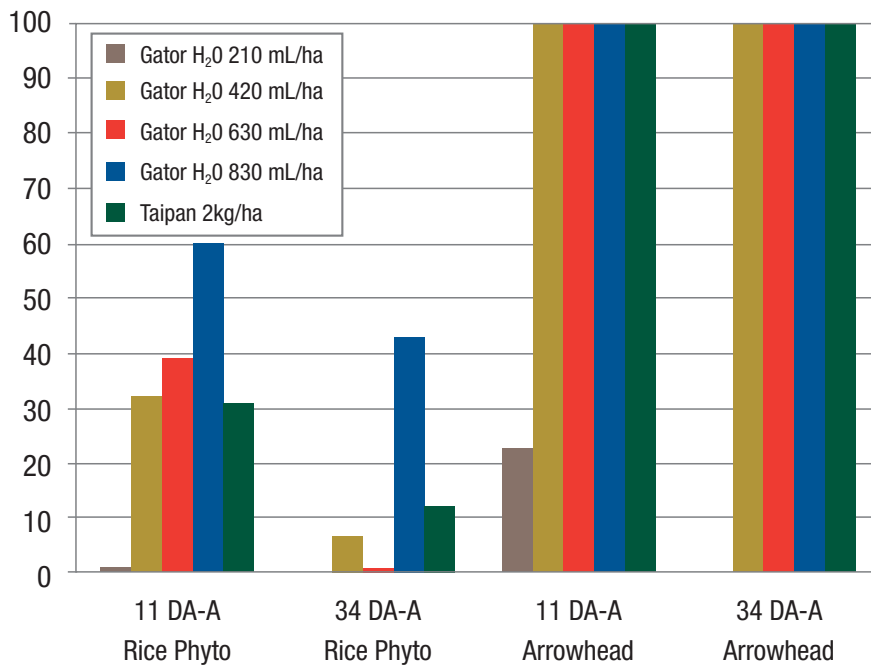
- Do not allow entry into treated areas for 12 hours. When prior entry is necessary, wear impervious footwear and chemical resistant gloves. Clothing must be laundered after each day's use.

Trial Results

% Mean efficacy of Gator H₂O on Dirty Dora - small plot trial 2013/2014

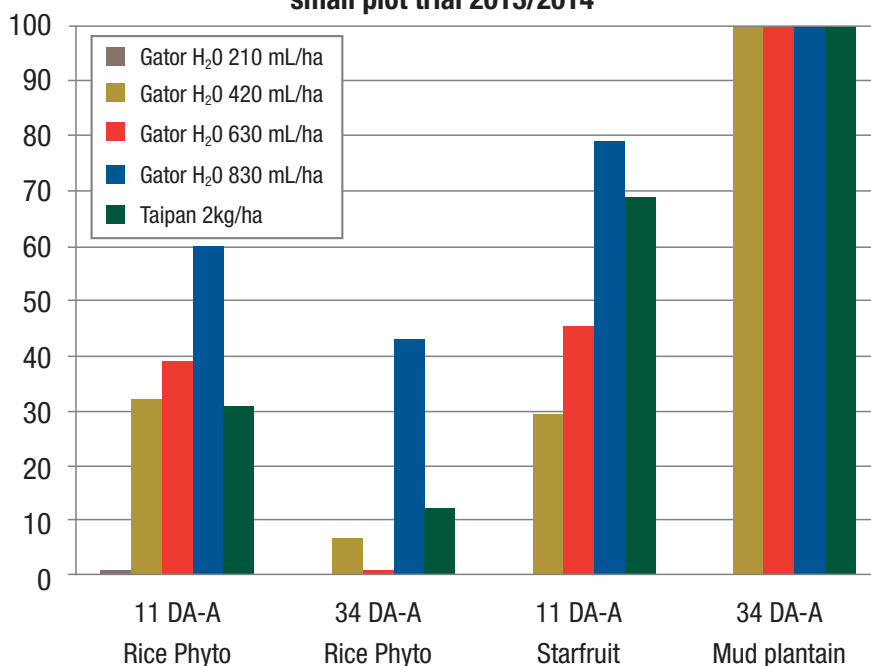


% Mean efficacy of Gator H₂O on Arrowhead - small plot trial 2013/2014



Trial Results

% Mean efficacy of Gator H₂O on Mud Plantain* and Starfruit - small plot trial 2013/2014



*Please note Gator H₂O is not registered for the control of Plantain. FMC will be conducting further trials on this weed, with a view to making an application submission for registration.

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