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Select Theme	: Sustainable and equitable farming systems
Endorsement email	:
Keyword 1	: Weed management
Keyword 2	:
Keyword 3	:
Title of Entry	: Premix with Rinskor™ Active, a New Solution for Rice Mid-one shot market in Korea
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Rinskor™ active (florpyrauxifen-benzyl) is the newest arylpicolinate synthetic auxin herbicide from Dow AgroSciences with global utility in water-seeded, dry direct-seeded and transplanted rice. Rinskor has demonstrated unique and broad-spectrum weed control including important grass, sedge, and broadleaf weed species in rice, and can be used as a part of program approach to control weeds resistant to ALS-, ACCase-, propanil-, and quinclorac. In Korea, herbicides can be applied either directly into flooded paddy or as foliar spray at post emergence. Granular formulations have been widely used in Korean transplanted rice since 1983 to control weeds (water injection at 10 to 15 days after transplanting). Suspension concentrates and direct tablet formulations are also getting popular for water injection market recently. These formulations have been successful in water injection application as mobility in water system is an important factor. Dow AgroSciences and Korean formulators have conducting trials with Rinskor since 2014 in Korea, as a product for the single application segment (10 to 15 DAT application) compared with most important commercial standards. Efficacy of five Rinskor-containing product concept (Rinskor+penoxsulam+benzobicyclon SC, Rinskor+flucetosulfuron+benzobicyclon DT, Rinskor+propyrisulfuron+benzobicyclon SC, Rinskor+propyrisulfuron+bromobutide SC, and Rinksor+tefuryltrion GR) was determined from 2015 to 2017. Rinskor at 25 to 50 gr ai ha-1, was applied at 10 to 20 days after transplanting (DAT), when the growth stage of Echinochloa crus-galli (ECHCG) was from 2.5 to 5 leaf stage. Rinskor-containing product concepts provided greater than 95% control of annual weeds, Echinochloa crus-galli, Monochoria vaginalis, Lindernia Dubia and Cyperus difformis, and perennial weeds, Schoenoplectus juncoides and Eleocharis kuroguwai. There was no adverse effect of Rinskor product concepts in rice yields even when applied at 50 gr ai ha-1, is twice the anticipated Rinskor use rate. These Rinskor-containing product concepts will be effective weed management tools to combat herbicide resistance development. These products also have highly favorable environmental and toxicology profiles in rice paddy fields in Korea. ®™ Trademark of The Dow Chemical Company (“Dow”) or E. I. du Pont de Nemours and Company (“DuPont”) or affiliated companies of Dow or DuPont.

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