

ORION™: NEW BROADLEAF HERBICIDE FOR WHEAT AND BARLEY. Peter C. Forster\*, Donald J. Porter and Jason C. Sanders, Syngenta Crop Protection Inc., Greensboro, NC 27419.

Orion™ is a new selective postemergence herbicide being developed for the US market by Syngenta Crop Protection for the control of broadleaf weeds in wheat and barley. Orion contains two active ingredients, florasulam and MCPA ester. Florasulam is a triazolopyrimidine sulfonanilide and inhibits acetolactate synthase (ALS). Orion is absorbed primarily through leaves of treated broadleaves and is xylem and phloem mobile. Orion has excellent crop safety to wheat (including spring, winter and durum) and barley and can be applied from the 3-leaf stage up to the boot stage of crops. At the recommended use rate of 17 fl. oz/A, Orion controls wild buckwheat (*Polygonum convolvulus*), common lambsquarters (*Chenopodium album*), wild mustard (*Sinapis arvensis*), prickly lettuce (*Lactuca serriola*), redroot pigweed (*Amaranthus retroflexus*), smartweed (*Polygonum spp.*), catchweed bedstraw (*Galium aparine*), mayweed chamomile (*Anthemis cotula*) and numerous other broadleaf weeds. Orion has a short soil half-life allowing for flexible crop rotations the following growing season. Based on its broad weed control spectrum, excellent crop safety and rotational crop flexibility, Orion will become a new standard for broadleaf weed control in wheat and barley crops.