Plans are being made to submit application for registration and variety protection of Newbonnet under P.L. 91-577 with the certification option.


**REGISTRATION OF CP 74-2005 SUGARCANE**

The sugarcane cultivar 'CP 74-2005' (Reg. no. 62) was selected from the cross CP 66-1043 × 'CP 63-588,' that was made in December 1972. It is a complex trispecies hybrid of *Saccharum officinarum* L., *S. spontaneum* L., and *S. barberi* Jeswiet. CP 74-2005 was developed through the cooperative research of the USDA-ARS, the University of Florida—Institute of Food and Agricultural Sciences, and the Florida Sugar Cane League, Inc. and was released to the sugar industry in the fall of 1982.

CP 74-2005 is an excellent-ratooning, high-tonnage, high-sucrose, and late-flowering cultivar. In the average of 23 replicated tests (8 plant cane, 8 first ratoon, and 7 second ratoon) on Terra Ceia, Pahokee, Lauderdale, and Torry muck and on Pompano fine sand, CP 74-2005 produced 17.4% more tonnes of cane per hectare and 17.7 and 22.7% more indicated sugar per hectare at early and late harvests, respectively, than did the check cultivar, CP 63-588. CP 74-2005 is one of the best ratooning cultivars that we have released. In the second ratoon crop, it maintained 87 and 93%, respectively, of its plant cane yield of tonnes of cane and tonnes of sugar while CP 63-588 maintained only 71 and 77%, respectively, of its plant cane yield of tonnes of cane and tonnes of sugar. It has a millability factor of 0.98 compared to a 1.00 for CP 63-588. Average stalk diameter of CP 74-2005 was 85% of that for CP 63-588; although stalk diameter was smaller for CP 74-2005, its average stalk weight was 97% that of CP 63-588.

CP 74-2005 has adequate resistance (for commercial production in Florida) to sugarcane mosaic virus, leaf scald [caused by *Xanthomonas albilineans* (Ashby) Dowson], eye spot [caused by *Bipolaris sacchari* (Butler) Shoemaker], rust [caused by *Puccinia melanocephala* H. Syd. & P. Syd.], and smut (caused by *Ustilago scitaminea* Sydow).

Seedcane of CP 74-2005 will be maintained by USDA-ARS at the Sugarcane Field Stn., Canal Point, Fla.

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