REGISTRATION OF CP 72-370 SUGARCANE  
(Reg. No. 57)

H.P. Fanguy and R.D. Breaux

'CP 72-370' sugarcane, a tri-species hybrid involving Saccharum officinarum L., S. spontaneum L., and S. barberi Jeswiet, is a selection from the cross 'CP 61-37' × 'CP 52-68.' The cross was made at Canal Point, Fla., during the 1967 crossing season. CP 72-370 was developed through cooperative research of AR-SEA-USDA, the Louisiana Agricultural Experiment Station, and the American Sugar Cane League.

CP 72-370 is recommended for culture on light and heavy soils in Louisiana. It is a high-sucrose, moderately erect cultivar. It equaled the leading commercial cv., 'CP 65-357,' in yields of sugar/ha and sugar per ton of cane in 68 replicated tests. CP 72-370 also equaled CP 65-357 in overall yield of cane/ha for a three-crop cycle, but with a significantly lower yield of cane in the plant crop on light soils. Yields of sugar/ha on heavy soils were equal to that of CP 65-357. CP 72-370 is not brittle and is well adapted to machine harvesting.

CP 72-370 is moderately susceptible to infection with sugarcane mosaic virus and susceptible to infection with ratoon stunting disease. Preliminary data indicate that the cultivar is resistant to infection with sugarcane rust (caused by Puccinia melanocephala H. & P. Syd.) and smut (caused by Ustilago scitaminea Syd.). CP 72-370 is moderately resistant to borer (Diatraea saccharalis F.), equaling CP 65-357. Preliminary data indicate that CP 72-370 has moderate resistance to post-freeze deterioration.

Seedcane of CP 72-370 will be maintained by AR-SEA-USDA, at the U.S. Sugarcane Field Laboratory, Houma, Louisiana.

REGISTRATION OF NC 82 TOBACCO  
(Reg. No. 84)

G. R. Gwynn

'NC 82' is a flue-cured tobacco (Nicotiana tabacum L.) developed and released cooperatively by AR-SEA-USDA and the North Carolina Agric. Res. Serv. It was tested as line 2082 in the North Carolina Official Variety Test 1977, 1978; in the Flue-Cured Regional Small Plot Test in 1974, 1975, 1977, and 1978; and the Flue-Cured Regional Farm Test in 1975 and 1978. It was also tested in the North Carolina Official Variety Test after its release as NC 82 in 1979 and 1980. NC 82 was a breeding line in the FL0 program of tobacco at the University of Georgia of the Cooperative Agricultural Experiment Stations of Georgia, South Carolina, and Virginia.

NC 82 is highly resistant to black root rot (Phytophthora parasitica f. nicotianae (Breder.) Berk. & Br.) and resistant to bacterial wilt (caused by Pseudomonas solanacearum E. F. Smith), Fusarium wilt (caused by Fusarium oxysporum (Schlecht.) Wr.f.sp. nicotianae J. R. & S. Mel.) and root rot (caused by Thielaviopsis basicola (Berk. & Carm.) Sacc. & Harb.) as well as physical and chemical disease. Preliminary data indicate that the cultivar is resistant to black shank and bacterial wilt particularly and Fusarium wilt and black root rot. It presents a high-quality tobacco such as Coker 319 with improved resistance to black shank and bacterial wilt, or perhaps Fusarium wilt and black root rot. NC 82 is slightly shorter and is usually topped at 19 leaves. It can also flower prematurely like 'Coker 8038-3.'

It was determined that NC 82 had the highest price per pound at $1.54 and the highest grade index at 49. It has met the chemical, physical, and smoking standards as developed and administered by the Cured Tobacco Quality - Varieties Committee. NC 82 represents a high-quality tobacco such as Coker 319 with resistance to black shank and bacterial wilt, and perhaps Fusarium wilt and black root rot.

Seedcane of NC 82 will be maintained at the Tobacco Research Laboratory, Foundation Seed Program, by the North Carolina Foundation Seed Producers, Inc., North Carolina State Univ., Raleigh, NC 27650.

REGISTRATION OF CANUCK  
(Reg. No. 646)

R. M. De Pauw and D. S. McBean

'Canuck,' hard red spring wheat (Triticum aestivum L. em Thell.), CI 17342, was developed by the Agricultural Research Stations at Whiteville, Kinston, Rocky Mount, and Oxford, and Reidsville, North Carolina. Tests are conducted in Georgia, South Carolina, and Virginia.

Canuck was selected from a cross between a good-yielding and easy to cure while still maintaining the good leaf type and shape of the Coker 319 variety. Canuck is essentially the same height (104 cm) as 'NC 95' (5.5 cm shorter than 'NC 82') and resistant to bacterial wilt (caused by Pseudomonas nicotianae) and root rot (caused by Thielaviopsis basicola (Berk. & Br.) Berk. & Br.)

Canuck has the highest price per pound at $1.54 and the highest grade index at 49. It has met the chemical, physical, and smoking standards as developed and administered by the Cured Tobacco Quality - Varieties Committee. NC 82 represents a high-quality tobacco such as Coker 319 with resistance to black shank and bacterial wilt, or perhaps Fusarium wilt and black root rot.

Breeder seed of NC 82 will be maintained at the Tobacco Research Laboratory, Foundation Seed Program, by the North Carolina Foundation Seed Producers, Inc., North Carolina State Univ., Raleigh, NC 27650.