Pioneer brand hybrids 3901 and 3732, respectively, at Beresford, SD. Complete location and year data are available on request.

SD46 has resistance to northern corn leaf blight (caused by *Exserohilum turcicum* (Pass.) Leonard & Suggs), and good resistance to Diplodia stalk rot caused by (*Diplodia maydis* (Berk.) Sacc.). Breeder seedstocks are maintained by South Dakota Foundation Seeds and can be obtained in germplasm quantities (50 kernels) from South Dakota State University Foundation Seed, Box 2125, Brookings, SD 57007.

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REGISTRATION OF SD46 PARENTAL LINE OF MAIZE

SD46 (Reg. no. PL-120 (PI 524970) is a yellow dent maize (*Zea mays* L.) parental line developed at the Agricultural Experiment Station, South Dakota State University Brookings. This line was evaluated for agronomic performance and in hybrid combinations for yield and moisture. SD46 was released in March 1987 because of its potential to produce competitive hybrids for central and southern South Dakota.

SD46 was derived by selfing an individual plant selection from Pioneer hybrid 3709. Selfing was practiced for seven generations with selection for desirable plant, ear, and root traits. SD46 was evaluated for 4 yr at Brookings and would be considered intermediate to late; flowering 10 d after A619, 15 d after CM105, and 12 d after A654. Plants are approximately 200 cm tall, with approximately 110 cm above the ground green in appearance and has small tassels are about 16 cm long and are borne on 8 and are from 12 to 14 rows of medium-size cob. Moisture content of the seed generally 20% 60 d after pollination. It has good ear strength, excellent vigor, husk looseness, and has good specific combining ability with a 4-yr average of 7.74 Mg ha$^{-1}$, compared Pioneer hybrid 3901 and 7.84 Mg ha$^{-1}$ for Pioneer hybrid 3732 when tested at Brookings. It produced 9.34 Mg ha$^{-1}$ compared to 8.66 Mg/ha and 8.44 Mg ha$^{-1}$ for Pioneer 3732 at Watertown, SD. SD46 has resistance to northern corn leaf blight (*Exserohilum turcicum* (Pass.) Leonard) and resistance to Diplodia stalk rot (*Diplodia maydis* (Berk.) Sacc.). Breeder seedstocks are maintained by South Dakota Foundation Seeds and can be obtained in germplasm quantities (50 kernels) from South Dakota Foundation Seed, Box 2125, Brookings.

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