

AC Mustang Oats

AC Mustang was evaluated as LAO-453-018 in a Preliminary Oat Yield Nursery at three central Alberta locations in 1987, entered into the Advanced Oat Yield Nursery at four Alberta locations in 1988, and has been evaluated in the Alberta Project Oat Test conducted at seven Alberta and two Saskatchewan locations in 1989. In 1990, AC Mustang was assigned the experimental designation 01766 and tested for 3 yr in the Western Cooperative Oat Test. This 16 site test was conducted at the University of Saskatchewan in Saskatoon, at the Alberta Wheat Pool Research sites at Olds and Bentley, the United Grain Growers Research Farm at Neepawa, and at the Agriculture and Agri-Food Canada Research Centres located in Winnipeg, Brandon, Morden, Swift Current, Regina, Indian Head, Melfort, Scott, Lacombe, Lethbridge, Beaverlodge and Fort Vermillion.

End-use quality evaluations were conducted by the Canadian Grain Commission, Grain Research Laboratory, and by the Agriculture and Agri-Food Canada Research Centres in Winnipeg and Saskatoon. Forage yield evaluations were made in replicated forage yield trials conducted at eight Alberta locations including Acme, Breton, Brooks, Lacombe, Mundare, Standard, Vegreville and Fort Vermillion in 1993.

Performance and Adaptation

In 3 yr of testing in the Western Cooperative Oat Test (49 location-years), AC Mustang has out-yielded Dumont and Cascade by 9.7 and 5.8%, respectively for grain yield. AC Mustang is best adapted to the Black and Grey-wooded soils of Alberta and Saskatchewan (Zone 2), and the Brown and Dark-Brown soils of Alberta (Zone 3). In Zone 2, grain yield of AC Mustang was 13.8% more than Dumont, and 7.1% more than Cascade; in Zone 3, it has yielded 10%.