

University of Nebraska
Department of Biological Systems Engineering
Nebraska Tractor Test Laboratory

TRACTORS REQUIRING A LIMITED TEST

This Board Action defines tractors that require a limited performance test. Smaller tractors may not necessarily be purchased for draft work, but be more of a utility tractor. The suggested performance tests would be most appropriate for these size tractors to meet the requirements of the Nebraska Tractor Test Law.

1. Agricultural tractors with power ratings from 40 to 100 PTO horsepower inclusive (advertised PTO horsepower as specified in Board Action No. 18) require a PTO performance test, hydraulic power and lifting force test, and a sound test, all run according to an OECD code or SAE test procedure. As an option, the manufacturer may elect to run a full performance test. However, unless a full performance test is completed on the tractor and approved, reciprocity with other OECD test stations does not apply as a partial code test cannot be approved by the OECD Coordinating Center. Therefore, all tractors for which limited tests will be performed must be tested at the University of Nebraska Tractor Test Laboratory.
2. The PTO test shall consist of the following components of the official OECD PTO test:
 - Maximum power.
 - Maximum power at rated engine speed.
 - Maximum power at standard PTO speed.
 - Full load and varying speed. The test shall go down to an engine speed below the speed at which maximum torque occurs.
 - Varying power and fuel consumption based on torque at rated engine speed.

- 3. All tractors with power ratings greater than 100 PTO horsepower (advertised PTO horsepower) need a full performance test run according to OECD Code II, or SAE test procedures, and a sound test as specified in Board Action No. 25.

August 17, 1998
May 1, 2002 (Revised)
November 22, 2006 (Revised)

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