



National Wildfire Coordinating Group
Equipment Technology Committee



ETC-19-02

Date: 12 December 2019
To: Members, Equipment Technology Committee (ETC)
From: Dave Haston, Chair, Equipment Technology Committee
Subject: Revised Dozer Typing Standard available via the NWCG Standards for Wildland Fire Resource Typing, PMS 200

Purpose: This memorandum communicates the revision of the NWCG Dozer Typing Standard. The standard was validated through the results of the ETC Equipment Bulletin 19-03, *NWCG Dozer Typing Standard – Request for Comment*. Please review this memorandum and take action as appropriate.

Issue/Action: Upon release of this memorandum, all publications and applications that reference the Dozer Typing Standard should be updated to incorporate the current typing. The new standard (shown below) ensures equipment mobilized more closely matches operational need. The standard will reside in the forthcoming NWCG publication titled *NWCG Standards for Wildland Fire Resource Typing, PMS 200* (<https://www.nwcg.gov/publications/pms200>).

NWCG Dozer Typing Standard

Requirements	Type 1	Type 2	Type 3	Type 4
Net HP Range ¹	240 and up	150 - 250	99 - 165	50 - 110
Minimum Base weight ²	60,000 lbs.	35,000 lbs.	20,000 lbs.	10,000 lbs.

1. Manufacturer’s published rated net horsepower (HP). Horsepower rating taken at the flywheel with all the engine accessories installed not counting transmission losses or anything after the flywheel.
2. Manufacturer’s published base weight including equipped track width and blade configuration, equipment fluids, etc. If a published base weight is unavailable, a certified in-service weight shall be used.

Base operational weight is only used for typing. Final in-service weight will be higher and include additional accessories such as winch, grapple, forestry package, etc. Final in-service weight must be used when calculating hauler capacity, bridge weight limits, etc.

Dozer must meet both weight and horsepower criteria.

Background: The *NWCG Glossary of Wildland Fire, PMS 205* definition of Dozer is, “any tracked vehicle with a front mounted blade used for exposing mineral soil.”

The NWCG Dozer Typing Standard was last published in the 1989 edition of the *Fireline Handbook, PMS 410-1*

In 2004, the standard was removed, however was referenced in the production tables as it is today in the *Wildland Fire Incident Management Field Guide, PMS 210*.

Additional downstream applications and/or publications may have also used their own individual dozer standards to meet their specific business needs.

The 1989 NWCG Dozer Typing Standard allowed a wide range of machines with significantly different horsepower (HP), weight and machine capabilities to fit into the same type which can result in equipment arriving on the fireline that does not meet operational needs. The NWCG Dozer Typing Standard included three (3) types and only used minimum horsepower (HP) as a defining attribute. The NWCG Mobile Fire Equipment Subcommittee (MFES) under the ETC revised the 1989 standard to four (4) dozer types and specifies a minimum and maximum HP range. In addition, minimum base weight is incorporated as a second requirement to further refine the typing. The use of minimum base weight allows the HP ranges to overlap rather than having a single numerical breakpoint, but makes certain that equipment only falls within a single type.

Additional Information: The history of the NWCG Tractor Plow Typing Standard is akin to that of the Dozer Typing Standard. Therefore, the MFES plans to review the operational validity of the 1989 standard at a later date. At a minimum, however, the Tractor Plow Typing Standard will be republished in the forthcoming, *NWCG Standards for Wildland Fire Resource Typing*, PMS 200. Furthermore, the MFES may repeat this process if there is an identified business need in wildland fire for NWCG Typing Standards to include additional categories of mechanized equipment. In addition, the NWCG Glossary of Wildland Fire (PMS 205) definitions and the NWCG Data Standard: Fire Resource Kind, Category, and Type will be updated accordingly.

Contact: Please direct questions to the Equipment Technology Committee's Chair, Dave Haston, at david.haston@usda.gov or Vice-Chair, Bill Yohn at bill_yohn@nps.gov.