

WORK SHEET FOR COMPACTION AND PENETRATION RESISTANCE DATA

Project _____ Site _____ Sample No. _____

| COMPACTION DATA | | | | | | |
|---|--|--|--|--|--|--|
| 1. Weight of cylinder plus moist soil _____ (lb) | | | | | | |
| 2. Weight of cylinder _____ (lb) | | | | | | |
| 3. Weight of moist soil = (1) - (2) _____ (lb) | | | | | | |
| 4. Wet density ¹ = (3) volume of cylinder _____ (lb/ft ³) | | | | | | |
| 5. Dry density ¹ = ((4) x 100) ÷ (100 + (9)) _____ (lb/ft ³) | | | | | | |
| 6. Proctor Needle reading _____ | | | | | | |
| 7. Size of needle _____ (in ²) | | | | | | |
| 8. Penetration resistance = (6) ÷ (7) _____ (lb/in ²) | | | | | | |

| MOISTURE DETERMINATION DATA | | | | | | |
|--|--|--|--|--|--|--|
| 9. Moisture content ¹ = ((13) ÷ (15)) 100 _____ (%) | | | | | | |
| 10. Container No. _____ | | | | | | |
| 11. Weight of container plus moist soil _____ (g) | | | | | | |
| 12. Weight of container plus dry soil _____ (g) | | | | | | |
| 13. Weight of moisture = (11) - (12) _____ (g) | | | | | | |
| 14. Weight of container _____ (g) | | | | | | |
| 15. Weight of dry soil = (12) - (14) _____ (g) | | | | | | |

Volume of cylinder, _____ ft³, using: ASTM or other standard _____, method _____

Procedure data: weight of hammer _____ lb, drop _____ in., number of lifts _____

Completed by _____ date _____ Computed by _____ date _____

Checked by _____ date _____ Recorded by _____ date _____

¹ Density, penetration resistance, and moisture content values (No. 4, 5, 8, 9) are plotted on Form NRCS-ENG-352.