

# Instructions

## ***Terrace Layout & Construction Check*** ***NE-ENG-19*** ***Data Sheet***

**Instructions on the design of terraces** are found in the EFM\*, Chapter 8 and Field Office Technical Guide Standard 600.

\*Note: EFM (Engineering Field Manual) title has been changed to EFH (Engineering Field Handbook).

### Instructions for use of NE-ENG-19

Completely fill out the heading, location map, and legal description. The following notes refer to the sample form.

#### Design and Layout Data

- Ter. No.            the terrace number that corresponds to the location map; you may have more than one terrace per sheet
- Type of terrace    type of terrace; i.e., storage, gradient, level, or flat channel
- Design slope      slope of the land above the terrace, in %
- Hor. Int.           horizontal interval used to design the terrace, in feet
- Row width          row width of the equipment used for design, in feet
- Chan. width        enter channel width for flat channel terraces, in feet
- Grade                enter grade of channel bottom
- Math. Stor. Des    method used to design the storage; i.e., enter NETER, tables, etc.
- Sta's of stor.      stations of storage. Enter the end stations of storage within the terrace; i.e., if the terrace is from Sta. 0+00 to 10 + 00 but the storage is between Sta. 1+50 and 8+50, then show

1 + 50
8 + 50

- Ridge elev.        design elevation of the embankment within the storage portion of the terrace. For non-storage terraces, just leave blank.
- Spwy. Elev.        elevation of the emergency spillway for storage type terraces
- Height.            height of the terrace, in feet
- Cut slope          length cut slope, in feet, for cuts on the uphill side of the terrace
- Front slope        length of terrace front slope, in feet
- Back slope         length of terrace backslope, in feet
- Layout             length of terrace as staked for construction, in feet
- Const.             actual constructed terrace length, in feet

### **Construction Check (Profile)**

Terr. No.	number of the terrace checked
EL	elevation of the bench mark
BS	back sight with the rod on the bench mark
HI	height of instrument, (19) plus (20)
Sta	stations along the length of the terrace
Ridge	rod reading with the rod 1.5' upstream from the top ridge of the terrace
EI	elevation or ridge at 1.5' from the top ridge of the terrace, (21) minus (23)
Chann	rod reading with the rod in the channel as described in Field Office Technical Guide Standard 600.
EI	channel elevation (21) minus (23)
Chann	used for the other side of the bottom of flat channel terraces
EI	used for the other side of the bottom of flat channel terraces

### **Cross Section**

Terr no.	terrace number
Sta.	station where cross section was taken
Cut	length of cut slope if applicable, in feet
B.W.	bottom width for flat channel terraces, in feet
Front B.W.	length of front slope, in feet--for narrow base terraces, enter only the total base width
Back B.W.	length of backslope, in feet--for narrow base terraces, enter a dash (-)
Eff. Ht. (ft.)	effective height of terrace, in feet, measured according to Field Office Technical Guide Standard 600
Length by	method used to measure terrace length
Remarks	remarks as needed
Name/date	initials of person making the construction check and the date of the check
Signature	signed, dated, and representing to be completed by whomever states that the practice has been installed according to plans and specifications. It may be an NRCS technician or contractor.

### **Support References**

Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Terrace, 600  
<http://efotg.nrcs.usda.gov/references/public/NE/NE600.pdf>

Engineering Field Handbook, 210-VI-NEH-650.08 (New NRCS Directive No.), EFM-1D (Old NRCS Catalog Order No.), EFH Chapter 8, Terraces, 07/01/1984 <http://www.info.usda.gov/CED/ftp/CED/EFH-Ch08.pdf>

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