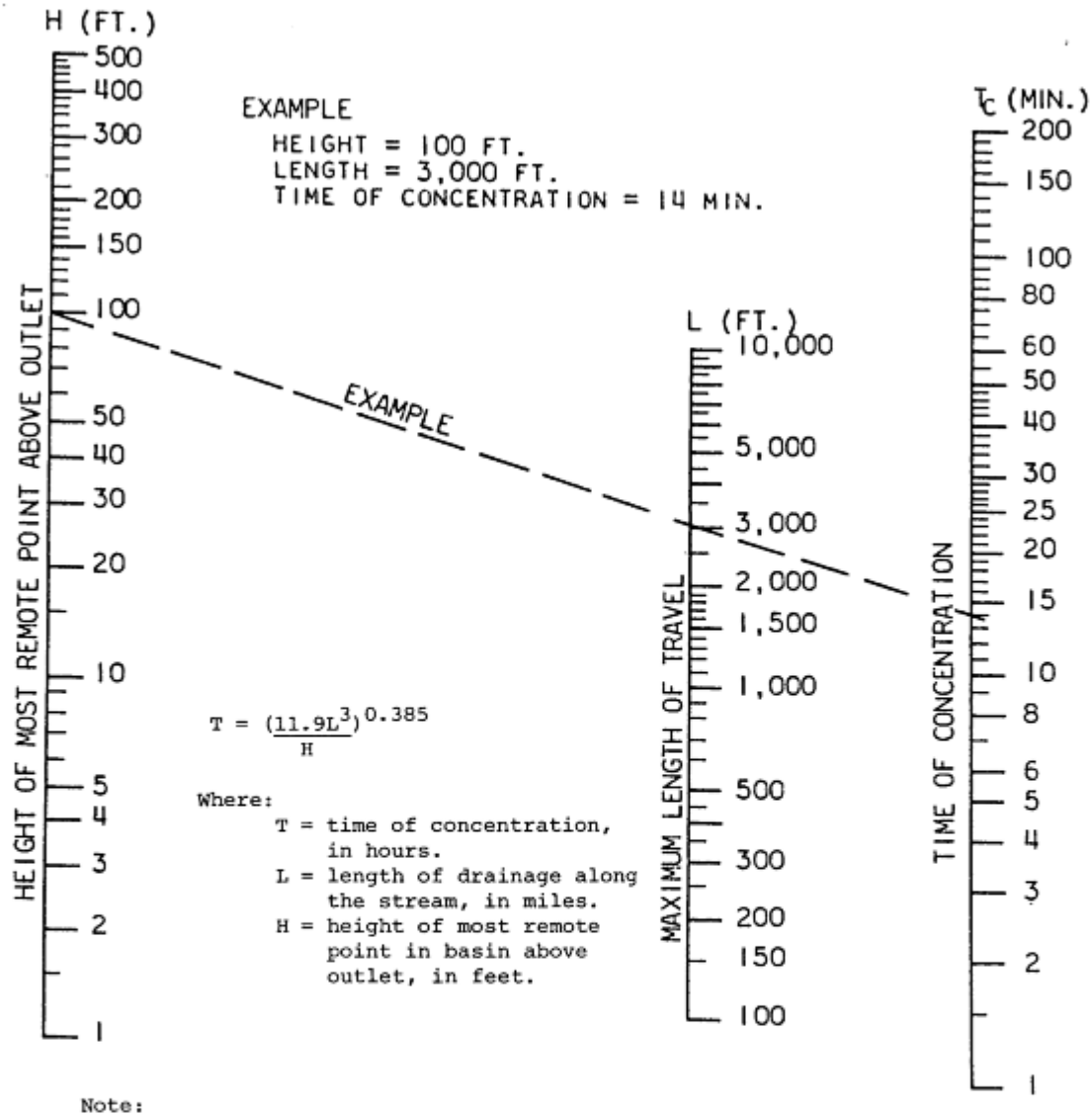
Appendix V–03 B Time of Concentration of Small Drainage Basins

Appendix V-03B



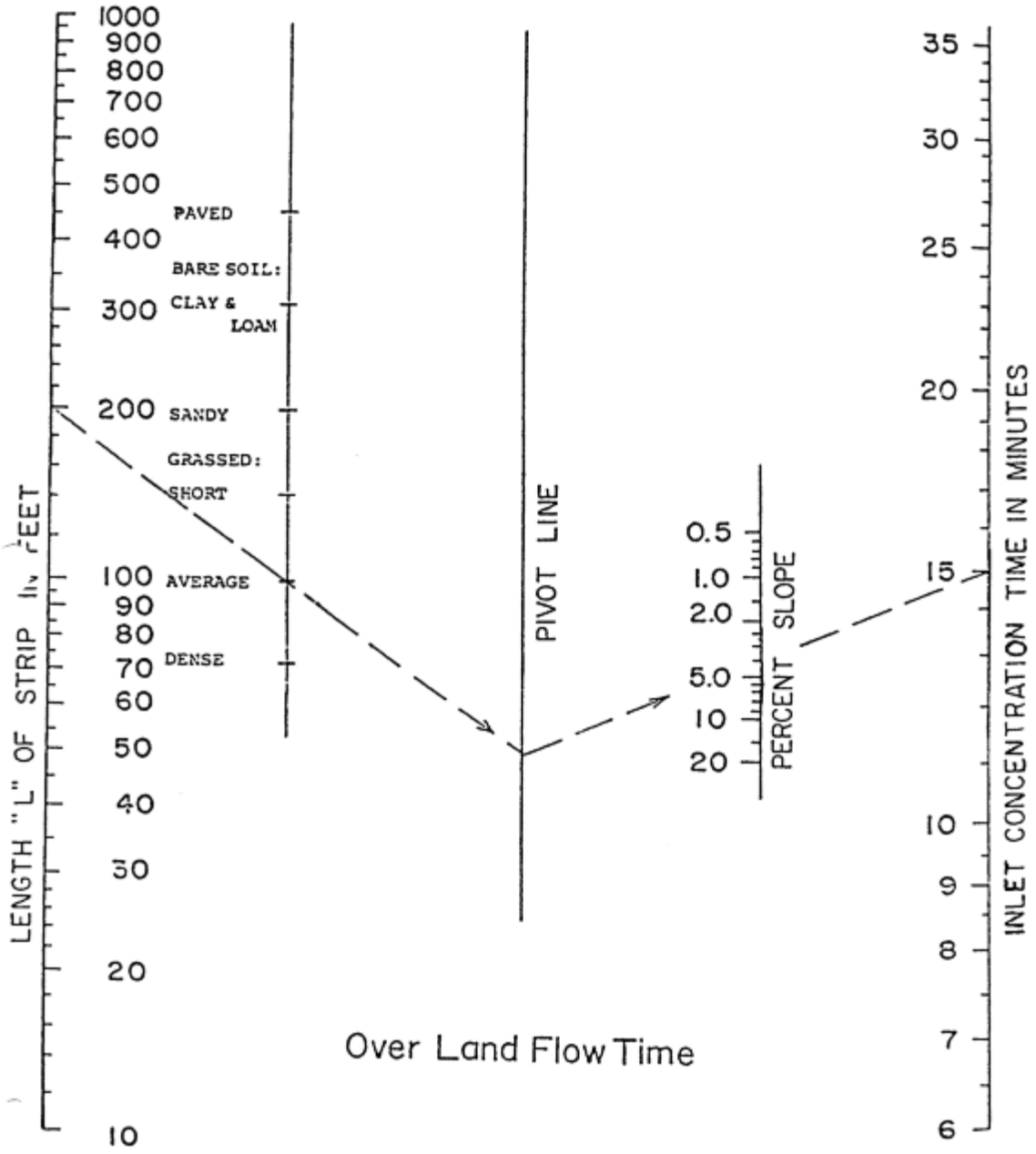
$$T = \left(\frac{11.9L^3}{H}\right)^{0.385}$$

Where:

T = time of concentration, in hours.
L = length of drainage along the stream, in miles.
H = height of most remote point in basin above outlet, in feet.

Note:

Use nomograph T_c for natural basins with well defined channels, for overland flow on bar earth, and for mowed grass roadside channels.
For overland flow, grassed surfaces, multiply T_c by 2.
For overland flow, concrete or asphalt surfaces, multiply T_c by 0.4.
For concrete channels, multiply T_c by 0.2.

TIME OF CONCENTRATION OF SMALL DRAINAGE BASINS

Appendix V–03 B1 Over Land Flow Time