

Table 9.7 Comparison of Results for Different Stability Analysis Methods*

	Computed Factor of Safety F				
	Bishop Routine	Spencer	Janbu Simplified	Morgenstern-Price f(x) = constant	Ordinary Method of Slices
(1) 2:1 slope 40 feet high $c' = 600$ psf, $\phi' = 20^\circ$	2.08	2.07	2.04	2.08	1.93
(2) As for (1) above with thin weak layer $c' = 0$, $\phi' = 10^\circ$	1.38	1.37	1.45	1.38	1.29
(3) Same as (1) except with piezometric line	1.83	1.83	1.83	1.83	1.69
(4) Same as (2) but with piezometric line in both layers	1.25	1.25	1.33	1.25	1.17

*abstracted from Fredlund and Krahn, 1977

This table from *Landslides in Practice*, by Derek H. Cornforth, Wiley (2005).

Table 9.8 Slope Stability Software Providers

Software Provider	List Price*	Methods of Analysis
1. XSTABL—Version 5 (1996) Interactive Software Designs, Inc. 953 N. Cleveland Street Moscow, ID 83843 www.xstabl.com e-mail: ssharma@uidaho.edu Author: Sunil Sharma, Ph.D.	\$450	Bishop's Simplified (Routine) Spencer Janbu General Limit Equilibrium Force Equilibrium Morgenstern–Price
2. UTEXAS4 Shinoak Software 3406 Shinoak Drive Austin, TX 78731 www.shinoak.com e-mail: sales@shinoak.com Author: Stephen Wright, Ph.D.	\$3,000 (prepaid) A simplified (and less expensive) version is also available	Bishop's Simplified (Routine) Spencer Corps of Engineers Lowe and Karafiath
3. GSLOPE (1990) Mitre Software Corporation Suite 200, 9636—51st Avenue Edmonton, Alberta Canada T6E 6A5 e-mail: info@mitresoftware.com	\$895	Bishop's Simplified (Routine) Janbu Simplified Non-Circular Analysis using Fredlund & Krahn
4. SLOPE/W Geo-Slope International #1400, 633–6th Avenue SW Calgary, Alberta Canada T2P 2Y5 e-mail: info@geo-slope.com www.geo-slope.com	(Version 2004) \$3,995 Also available @ \$3,995 each: Seep/W for seepage Sigma/W for stress distribution \$7995 for purchasing all three	Ordinary Method of Slices Bishop's Simplified (Routine) Janbu Simplified Spencer Morgenstern–Price Corps of Engineers Lowe & Karafiath General Limit Equilibrium Finite Element Stress Probabilistic Analyses

*prices shown are for 2004. Contact the vendors to obtain specifications, current prices, and other conditions for software use.

From *Landslides in Practice* by D.H. Cornforth, Wiley (2005).