

Analysis	Parameter	SmartRoot	WinRHIZO	EZ - RHIZO	DART	RootReader2D	DigiRoot	RootTrace	GiARoot
global	root length	yes	yes	yes	yes	yes	yes	yes	yes
	diameter	yes	yes	no	no	no	yes	no	yes
	number of roots	yes	no	yes	yes	yes	yes	yes	yes
detail	max. length lateral root	yes	no	yes	yes	yes	yes	no	no
	angle	yes	no	yes	yes	yes	yes	no	no
	root density	yes	no	yes	yes	no	yes	no	no
	length basal branching zone	yes	no	yes	yes	no	no	no	no
	length apical branching zone	yes	no	yes	yes	no	no	no	no
	length branching zone	yes	no	yes	yes	no	no	no	no
	growth	yes	no	yes	yes	no	no	yes	yes
	network depth	no	no	no	no	no	no	no	yes
	network width	no	no	no	no	no	no	no	yes
	network expansion	no	no	no	no	no	no	no	yes
root types	primary, seminal, lateral, crown root	yes	partly	yes	yes	yes	n.a.	n.a.	no
Processing		semiautomated	(semi-) automated	semiautomated	manual	automated	semiautomated	semiautomated	automated
Source		Lobet et al. 2011	WinRhizo Inc.	Armengaud et al. 2009	Le Bot et al. 2010	Clark et al. 2013	Stefanelli 2009	Naeem et al. 2011	Galkowsky et al. 2012