Regional Streamflow Duration Assessment Methods Suggested Field Equipment List

This is a list of suggested field equipment for conducting the Regional Streamflow Duration Methods (SDAM). The items listed are examples. Not all items are required.

Other necessary items that are not listed below include: Plant and invertebrate ID guides or apps, first aid kit, personal gear (e.g., boots, waders, insect repellant, etc.), notebook, and sealable plastic bags (for voucher collection). The relevant Regional SDAM User Manual should be consulted to determine all items needed in the field, e.g., site maps, National Wetland Plant List. Note that if multiple streams are to be sampled, decontamination supplies are recommended (spray bottles, scrub brushes, bleach).

Item	Notes	PNW	AW	WM	GP	NE	SE
Clinometer	Percent and degrees is fine, unless you want to measure the height of a tree	X	X	X		X	
Laser level	**Optional –** alternative to using a clinometer	X	X	X		X	
Leveling/stadia rod	Used as a target for the user while viewing the clinometer. **Optional if** using another target level with the user's eye (e.g. inanimate object, spot on another person) or a laser level.	X	X	X		X	
Convex Spherical Densiometer	Will need to modify to exclude the lower squares; see User manual for instructions.			X		X	X
Sand Gauge Card					X		X
GPS Unit	Any suitable GPS unit or mobile device, i.e., smartphone	X	X	X	X	X	X
Camera	Handheld camera or mobile device, i.e., smartphone. Ideally it is a digital camera that records metadata, i.e., time, date, directionality, and location, as part of the photo's EXIF (Exchangeable Image File Format) data.	X	X	X	X	X	X
Storage Clipboard	**Optional**	**X**	**X**	**X**	**X**	**X**	**X**
Rite-in-the-Rain Paper	For field forms, recommend a color (e.g., gray, tan, green) so can differentiate from regular paper. For internal vial labels, recommend white paper.	X	X	X	X	X	X
50-meter tape		X	X	X	X	X	X
Flagging tape	**Optional –** can be helpful marking the ends of the assessment reach or notable indicators or features.						

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Survey stakes	**Optional –** may be helpful for setting the measuring tape level at certain locations	**X**	**X**	**X**	**X**	**X**	**X**
Range finder or laser measuring tape	**Optional –** an alternative for measuring bankfull width	**X**	**X**	**X**	**X**	**X**	**X**
Digging Tools	Shovel, soil auger, rock hammer, hand trowel, pick, or other digging tools to facilitate hydrological observations of subsurface flow. Collapsible helpful.	X	X	X	X	X	X
D-frame kicknet	500 µm mesh	X	X	X	X	X	X
Aquarium Net(s)	**Optional** - Might be needed for smaller channels	**X**	**X**	**X**	**X**	**X**	**X**
Fine Forceps	Get several pairs	X	X	X	X	X	X
No. 35 sieve (500 µm mesh)	**Optional** - Not necessary but can be used with a bucket to sieve out fine sediments and help processing; can also use the D-net as sieve.	**X**	**X**	**X**	**X**	**X**	**X**
White tray	A variety of sizes are available; a 13” x10” pan is suitable and can fit in a backpack	X	X	X	X	X	X
Turkey baster (TB) and/or Transfer Pipettes (P)	**Optional** - Can be used to extract water from small pools to fill the white pan	**X**	**X**	**X**	**X**	**X**	**X**
Head lamp, waterproof	**Optional** - for working in darkly shaded reaches	**X**	**X**	**X**	**X**	**X**	**X**
Magnifier	Hand lens, pocket microscope, or magnified reading glasses	X	X	X	X	X	X
Vials	**Optional** - only needed if retaining voucher specimens; 20-25 ml scintillation vials are a good size; Most suppliers only sell in bulk.	**X**	**X**	**X**	**X**	**X**	**X**
Ethanol	**Optional** - 95% is strong, but water introduced from sample lowers % and preserves well. If use 70%, only put macros into vial (no leaves, algae, etc). 3.8 liters should last years if only used for voucher specimens.	**X**	**X**	**X**	**X**	**X**	**X**
A tarp for laying out equipment and samples		**X**	**X**	**X**	**X**	**X**	**X**