1 METHOD B	ACKCDOUND		
NAME OR CODE			LAWA-OS - Overview Survey
NAME OR CODE COUNTRY			Germany
KEY REFERENCE			LAWA (2002b)
WEBPAGE			
CATEGORY			The aim is to get an overview of the physical/hydromorphological conditions of rivers
2 - METHOD CI	HARACTERISTIC	es e	
		Maps/Remote sensing	Present and historical maps (topographic, geological, land use, etc.), aerial, satellite
A - SOURCE OF INFORMATION / DATA COLLECTION			photos and other GIS tools are used for the Overview survey NOT APPLICABLE (but a ground check is recommended)
		Field survey Rapid field assessment	NOT APPLICABLE (but a ground check is recommended)
		Existing database	Flood statistics, reports, plans, etc.
		Modelling	NOT APPLICABLE
	HIERACHICAL	River catchment/Water body/	Consistant with LAWA EC but 2 main parameters (instead of 6)
	SPATIAL SCALE	Reach/Cross Section	Consistent with LAWA-FS but 2 main parameters (instead of 6)
D CDATTAL	LONGITUDINA	Fixed length	The river is divided into reach 500m-1km long
B - SPATIAL SCALE	L SPATIAL	Scaled to channel width	NOT APPLICABLE
SCALL	SCALE	Variable length	NOT APPLICABLE
	LATERAL	Channel	Included and assessed as riverbed dynamics
	SPATIAL SCALE	Banks/Riparian zones Floodplain	Included and assessed as riverbed dynamics Included and assessed as floodplain dynamics (all the floodplain is considered)
	SCALE	Physical and morphological	
		assessment	Same as LAWA-FS
		Hydrological assessment	NOT APPLICABLE
		Characterization/classification	The method makes an inventorying and maps features The method mainly uses a functional-unit score system, where scores are assigned
		Assessment by index	following a the hierarchical/stepwise approach
		Deviation from reference	Same as LAWA-FS
		General assessment / Design	NOT APPLICABLE
D - TYPE OF ME	THOD	framework	
		Modelling status / Scenario	NOT APPLICABLE Local expert knowledge provides information on the possibility of water flow across
		Final expert judgment	the floodplain and on artificial barriers (Weiss et al., 2008)
		Links with other systems	In conjunction to LAWA-FS to get more detailed observations; it could also be used
		Links with other systems	when field conditions are not favourable to apply LAWA-FS
E - REFERENCE CONDITIONS			Same as LAWA-FS Same as LAWA-FS
	RIVER TYPOLOGY		Consistent with LAWA-FS (except for large rivers); it depends upon data availability;
	TYPOLOGY LIMITATIONS		not applicable to small rivers
	TYPE-SPECIFIC (Protocol / Assessment method)		It applies to large rivers more than 10 m wide (where features are visible form
	THE STEELING (Trococory Assessment method)		maps)
			The individual parameters are associated stepwise because of different ecological value. The total value of 'hydromorphological quality' results from the combination
	BASIS FOR STA	NDARDS / THRESHOLDS	of the two partial values 'river-bed dynamics' and 'floodplain'. Same score classes as
			for LAWA-FS
	REACH SCALE S	SURVEY STRATEGY	No particular reach survey strategy, all the river is assessed in continuum (more
			attention at the lateral spatial scale> floodplain) The overview survey is less time consuming than the field survey method; the
F - GENERAL	TIMING AND FREQUENCY		recommended monitoring frequency is 6 years, with respect to morphology and
INFORMATION			continuity (Weiss et al., 2008)
	DATA PRESENTATION (OUTPUT/LAYOUT)		Same as LAWA-FS
	METHOD SUPPORT / APPLICATION TOOLS		A standardized survey sheet for each 500 m-1 km survey; surveys cross-checked by two or more surveyors
	SPATIAL COMPARISON		Consistent with LAWA-FS (but for large rivers)
	S. A. L. L. COMMANDON		The scoring system weights in parameters following their ecological relevance, but
	CONNECTION TO ECOLOGY		direct connections between habitat and biology are difficult because of the large-
	LICEDO		scale approach
	USERS		Same as LAWA-FS Large scale characteristics are collected and used as basis for the reach scale
	SCALE INFORM	ATION	assessment
	NIIMRED OF EN	D DARAMETERS	2 main parameters/indicators divided into 17 parameters (organised into 3
	NUMBER OF END PARAMETERS		functional units)

3. RECORDED F	FATURES		
J. KLCOKDLD F		CHARACTERICTICS	Laura and band on the an onten annulation
	LARGE SCALE C	CHARACTERISTICS Hydrological conditions	Large scale land use, info on water regulation
A - CATCHMENT / VALLEY	HYDROLOGICA	, 3	Discharge regulation Flood frequency
	L REGIME	Metrics of hydrological regime Hydro-peaking	NOT APPLICABLE
	VALLEY FORM /		River valley type
	VALLEY FORM / FEATURES CHANNEL PATTERN / PLANFORM		Curvature, river planform
	CHANNEL FORMS		NOT AVAILABLE
	BED CONFIGURATION		NOT AVAILABLE
	CHANNEL DIMENSIONS		Variation in width
	FLOW-TYPE		NOT APPLICABLE
B - CHANNEL	PHYSICAL / HYDRAULIC VARIABLES		NOT APPLICABLE
	SUBSTRATE		NOT APPLICABLE
	IN-CHANNEL VEGETATION		NOT APPLICABLE
	WOODY DEBRIS		NOT APPLICABLE
		ATURES AND STRUCTURES	E.g. Weirs
	BANK PROFILE		NOT APPLICABLE
	BANK MATERIA	, -	NOT APPLICABLE
	RIPARIAN VEGETATION STRUCTURE		NOT APPLICABLE
		CONTINUITY OF RIPARIAN	
C - RIVER	VEGETATION		NOT APPLICABLE
BANKS/	RIPARIAN VEGETATION WIDTH		NOT APPLICABLE
RIPARIAN		OMPOSITION, COVERAGE AND	
ZONE	OTHER RIPARIAN VEGETATION		Existence of bank vegetation; River belt mapping
	CHARACTERISTICS		
	ARTIFICIAL FEATURES AND STRUCTURES		Bank protection
	LAND USE		Land use in the riparian belt
D -	FLUVIAL FORMS		NOT APPLICABLE
FLOODPLAIN	INFO ON FLOOR	OPLAIN FEATURES	NOT APPLICABLE
T LOOD! LAIN	LAND USE		Land use in the floodplain
4. RIVER PROC	ESSES		
A - LONGITUDINAL CONTINUITY Sediment and wood			Migration barriers
A - LONGITODINA	AL CONTINOTT	Water flow	Migration barriers
		Lateral hydraulic continuity	Flood protection measures
B - LATERAL CON	NTINUITY	Sediment (and wood) lateral	Potential for river-bed migration
	/	continuity	
C - BANK EROSION / STABILITY		DI I I I I I I I I I I I I I I I I I I	Bank erosion, stability of the profile
E - CHANNEL AD	JUSTMENTS	Planimetric (pattern & width)	NOT APPLICABLE
		Vertical	NOT APPLICABLE
F - VERTICAL CO		Groundwater connection	NOT APPLICABLE
5. APPLICATIO	N IO WFD		The body and the Committee for the Control District A. L. 2004
OFFICIAL METHO	D (WFD impleme	entation) / COMMONLY USED	It has been accepted by Germany in the first "River Basin District Analysis 2004"
METHOD (not cor		,, ,	(DE: Bestandsaufnahme 2004) (Weiss et al., 2008), but it lacks some information
•	,	×150	required by WFD (because of no field survey)
		F HIGH-STATUS / OTHER STATUS	It applies to large rivers when data are available
CLASSES USED TO PREDIC	T DICK VE VETE	DIODATION	Consistent with LAWA-FS but less powerful because less information collected
USED TO PREDIC			Consistent with LAWA-F5 but less powerful because less information collected
		OF ECOLOGICAL IMPACTS	
			It uses a fast and not much expensive approach (possible to produce regional and
KEY STRENGTHS	FOR RIVER MAN	AGEMENT	nation-wide surveys); features are carried out continuously