

Table S1: Key characteristics of past VTCSs research special reference to the sustainability and productivity dimensions

Reference	Year	Publication Type				Research Type				Research design				Research cluster				Sustainability and productivity dimensions																			
		JA	BC	RR	CP	Em.	E	D	C	QN	QL	MM	1	2	3	4a	4b	4c	Ecological productivity			Economic productivity			Social productivity			Cultural productivity									
																			BD	LH	WH	AC	FP	W	L	CV	FS	HH	PL	G	TK	BV	IV	RV			
<i>Abeysingha et al. [1]</i>	2021	*				*					*					*	*							*			*										
<i>Abeysingha, et al. [2]</i>	2018	*						*	*		*						*	*	*								*										
<i>Abeywardana et al. [3]</i>	2019	*				*				*						*							*								*						
<i>Abeywardana et al. [4]</i>	2019	*				*				*						*							*														
<i>Abeywardana et al. [5]</i>	2018	*				*				*						*							*														
<i>Aheeyar et al. [6]</i>	2023	*				*				*	*					*									*	*											
<i>Amerasinghe et al. [7]</i>	2001			*		*			*									*									*										
<i>Amerasinghe et al. [8]</i>	1997	*				*			*									*									*										
<i>Anuradha et al. [9]</i>	2019	*				*				*	*											*			*			*									
<i>Ariyawanshe et al. [10]</i>	2023	*				*				*								*										*									
<i>Avtar et al. [11]</i>	2013	*				*			*				*	*									*														
<i>Bebermeier et al. [12]</i>	2017	*				*			*								*						*														
<i>Bebermeier et al. [13]</i>	2023	*					*			*					*	*							*														
<i>Chandrajith et al. [14]</i>	2008	*				*			*							*	*			*		*	*				*										
<i>Dayananda et al. [15]</i>	2021	*				*			*				*			*						*	*														
<i>Dayananda et al. [16]</i>	2023	*				*			*				*			*						*	*														
<i>De Silva et al. [17]</i>	2002	*				*			*				*			*							*														
<i>Dharmasena [18]</i>	1994	*				*			*			*	*		*	*			*			*	*				*	*									
<i>Dharmasena [19]</i>	2010		*				*			*					*	*		*	*	*																	
<i>Dharmasena [20]</i>	2020		*				*	*		*		*			*			*	*	*																	
<i>Dharma-wardana [21]</i>	2015	*				*	*			*							*				*						*										
<i>Dilini et al. [22]</i>	2021	*				*				*	*													*	*		*										
<i>Dissanayake [23]</i>	2022		*			*				*					*	*		*	*	*																	
<i>Dissanayake et al. [24]</i>	2023	*				*				*					*	*	*	*	*	*																	
<i>Fernando et al. [25]</i>	2018				*	*				*					*		*	*	*	*																	
<i>Fernando et al. [26]</i>	2021				*	*				*					*	*		*	*	*							*										

JA = Journal article
 BC = Book chapter
 RR = Research report
 CP = Conference proceedings

Em. = Empirical
 E = Explorative
 D = Descriptive
 E = Conceptual

QN = Quantitative
 QL = Qualitative
 MM = Mixed methods

1 = Climate change & food security
 2 = Irrigation water supply & management
 3 = Agricultural water demand & supply
 4a = Spatial characteristics
 4b = Sustainability performance
 4c = Water quality & governance

BD = Biodiversity
 LH = Land habitats
 WH = Water habitats
 AC = Atmosphere/Climate
 FP = Food production
 W= Water
 L = Land
 CV= Climate vulnerability

FS = Food security
 HH = Human health
 PL = People/Livelihoods
 G = Gender
 TK = Traditional knowledge
 BV = Biocultural values
 IV = Intrinsic values
 RV = Relational values

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