Table 1. *Proposed* staged implementation goals and costs of agricultural BMPs by stage for Pigg River. Assumes one exclusion systemaverages 2,000 linear feet of stream fencing.

Narrow V Grazing L  Stream E Wide Wit Land Ma  Stream E tree plan Exclusion maintend  Extension  Pasture  Parmane critical an  Sedimen or water  Conversion Cropland  Forest rip Forest rip Crops and conversion Cropland Forest rip Fo	Practice	Cost share code	Units	Unit cost	Sta	ge 1	Sta	ge 2	то	TAL
	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Stream Exclusion with Narrow Width Bufferand Grazing Land Management	SL-6N		\$60,000	1 (2,000)	\$60,000	0	\$0	1 (2,000)	\$60,000
Livestock stream Exclusion	Stream Exclusion with Wide Width Buffer and Grazing Land Management	SL-6W, SL-6F	system (feet)	\$95,000	4 (8,000)	\$380,000	4 (8,000)	\$380,000	8	\$760,000
	Stream Exclusion with tree planting - CREP	CREP		\$100,000	1 (2,000)	\$100,000	0	\$0	1 (2,000)	\$100,000
	Exclusion fence maintenance (10 yrs)	CCI-SE-1, CCI-SL-6N- CCI-SL-6W	feet	\$5.50	821	\$4,516	821	\$4,516	1642	\$9,032
	Extension of watering system	SL-7	system (acres)	\$13,000	1 (40)	\$13,000	1 (40)	\$13,000	2 (80)	\$26,000
	Pasture management	NRCS-CSP, SL-10		\$150	173	\$25,950	389	\$58,350	562	\$84,300
Pasture	Afforestation of erodible pasture	FR-1	acres	\$3,000	0	\$0	42	\$126,000	42	\$126,000
	Permanent vegetation on critical areas	SL-11		\$2,000	0	\$0	0.86	\$1,720	0.86	\$1,720
	Sediment retention, erosion or water control structure	WP-1	acres treated	\$4,000	0	\$0	0	\$0	0	\$0
	Continuous no till	SL-15A		\$100	0	\$0	176	\$17,600	176	\$17,600
	Cover crops	SL-8B, SL-8H, SL-8M		\$75	0	\$0	176	\$13,200	176	\$13,200
Cropland	Conversion from high till to low till	N/A	acres	\$80	0	\$0	0	\$0	0	\$0
	Long term vegetation on cropland	SL-1		\$500	0	\$0	25	\$12,500	25	\$12,500
Hayland	Forest riparian buffers	DOF-RT, FR-3	acros	\$2,000	0	\$0	29	\$58,000	29	\$58,000
nayianu	Afforestation of haylands	FR-1	acres	\$3,000	0	\$0	0.6	\$1,800	0.6	\$1,800
	TOTAL ESTIMATED COST					\$585,466		\$673,686		\$1,259,152

Table 2. Proposed staged implementation goals and costs of urban and residential BMPs by stage for Pigg River.

2010	2				Sta	ge 1	Staį	ge <b>2</b>	то	TAL
ВМР Туре	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Erosion & sediment controls on transitional areas	N/A	a cres treated	\$500	4	\$2,000	0	\$0	4	\$2,000
Residential stormwater	Raingardens	RG	system	\$3,000	0	\$0	1	\$3,000	1	\$3,000
	Forest riparian buffers	N/A	acres	\$1,750	0	\$0	0	\$0	0	\$0
	TOTAL ESTIMATED COST					\$2,000		\$3,000		\$5,000

Table 3. Proposed staged implementation goals and costs of streambank restoration BMPs by stage for Pigg River.

DAMP Tour	Duration	Controllors and	Unite	Haib and	Sta	ge 1	Staį	ge <b>2</b>	то	TAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
Streambank	Stre a mbank stabilization	WP-2A	feet	\$750	650	\$487,500	0	\$0	650	\$487,500
	TOTAL ESTIMATED COST					\$487,500		\$0		\$487,500

Table 4. *Proposed* staged implementation goals and costs of agricultural BMPs by stage for Poplar Branch.

Assumes one exclusion systemaverages 2,000 linear feet of stream fencing.

estock stream Exclusion  Pasture  Cropland	Practice	Cost share code	Units	Unit cost	Sta	ge 1	Sta	ge 2	тс	TAL
вічій туре	Practice	Cost snare code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Stream Exclusion with Narrow Width Bufferand Grazing Land Management	SL-6N		\$60,000	0	\$0	0	\$0	0	\$0
vestock stream Exclusion	Stream Exclusion with Wide Width Buffer and Grazing Land Management	SL-6W, SL-6F	system (feet)	\$95,000	1 (2,000)	\$95,000	0	\$0	1 (2,000)	\$95,000
	Stream Exclusion with tree planting - CREP	CREP		\$100,000	0	\$0	0	\$0	0	\$0
	Exclusion fence maintenance (10 yrs)	CCI-SE-1, CCI-SL-6N- CCI-SL-6W	feet	\$5	22	\$121	22	\$121	44	\$242
	Extension of watering system	SL-7	system (acres)	\$13,000	1 (40)	\$13,000	1 (40)	\$13,000	2 (80)	\$26,000
	Pasture management	NRCS-CSP, SL-10		\$150	28	\$4,200	32	\$4,800	60	\$9,000
Pasture	Afforestation of erodible pasture	FR-1	acres	\$3,000	4	\$12,000	7	\$21,000	11	\$33,000
	Permanent vegetation on critical areas	SL-11		\$2,000	0.07	\$140	0.07	\$140	0.14	\$280
	Sediment retention, erosion or water control structure	WP-1	acres treated	\$4,000	0	\$0	25	\$100,000	0	\$100,000
	Forest riparian buffers	DOF-RT, FR-3		\$2,000	6	\$12,000	13	\$26,000	19	\$38,000
	Continuous no till	SL-15A		\$100	10	\$1,000	14	\$1,400	24	\$2,400
Cropland	Cover crops	SL-8B, SL-8H, SL-8M	acres	\$75	10	\$750	14	\$1,050	24	\$1,800
	Conversion from high till to low till	N/A		\$80	5	\$400	0	\$0	5	\$400
	Long term vegetation on cropland	SL-1		\$500	2	\$1,000	0	\$0	2	\$1,000
Hayland	Forest riparian buffers	DOF-RT, FR-3	acres	\$2,000	6	\$12,000	13	\$26,000	19	\$38,000
Trajiana	Afforestation of haylands	FR-1	ucics	\$3,000	0.1	\$300	0.1	\$300	0.2	\$600
	TOTAL ESTIMATED COST					\$151,911		\$193,811		\$345,72

Table 5. Proposed staged implementation goals and costs of urban and residential BMPs by stage for Poplar Branch

D140 T	Bur dies	Control on the	11-25-	11-21	Stag	ge 1	Sta	ge 2	то	TAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Erosion & sediment controls on transitional areas	N/A	a cres treated	\$500	0	\$0	0	\$0	0	\$0
Residential stormwater	Raingardens	RG	system	\$3,000	0	\$0	1	\$3,000	1	\$3,000
	Forest riparian buffers	N/A	acres	\$1,750	0	\$0	0	\$0	0	\$0
	TOTAL ESTIMATED COST					\$0		\$3,000		\$3,000

Table 6. *Proposed* staged implementation goals and costs of streambank restoration BMPs by stage for Poplar Branch.

	Dec. of the	Contraction and	11-25-	Heli ered	Sta <sub>į</sub>	ge 1	Sta <sub>l</sub>	ge <b>2</b>	то	TAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
Streambank	Stre a mbank stabilization	WP-2A	feet	\$750	0	\$0	0	\$0	0	\$0
	TOTAL ESTIMATED COST					\$0		\$0		\$0

Table 7. Proposed staged implementation goals and costs of agricultural BMPs by stage for Fryingpan Creek.

Assumes one exclusion systemaverages 2,000 linear feet of stream fencing.

DAAD T	Durather.	Contribution and	110.260	11010 000	Sta	ge 1	Sta	age 2	тс	TAL
ВМР Туре	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Stream Exclusion with Narrow Width Buffer and Grazing Land Management	SL-6N		\$60,000	0 (0)	\$0	0 (0)	\$0	0 (0)	\$0
Livestock stream Exclusion	Stream Exclusion with Wide Width Buffer and Grazing Land Management	SL-6W, SL-6F	system (feet)	\$95,000	0 (0)	\$0	0 (0)	\$0	0 (0)	\$0
	Stream Exclusion with tree planting - CREP	CREP		\$100,000	0 (0)	\$0	0 (0)	\$0	0 (0)	\$0
	Exclusion fence maintenance (10 yrs)	CCI-SE-1, CCI-SL-6N- CCI-SL-6W	feet	\$5.50	228	\$1,254	228	\$1,254	456	\$2,508
	Extension of watering system	SL-7	system (acres)	\$13,000	1 (40)	\$13,000	1 (40)	\$13,000	2 (80)	\$26,000
	Pasture management	NRCS-CSP, SL-10		\$150	144	\$21,600	162	\$24,300	306	\$45,900
Pasture	Afforestation of erodible pasture	FR-1	acres	\$3,000	32	\$96,000	32	\$96,000	64	\$192,00
	Permanent vegetation on critical areas	SL-11		\$2,000	0.36	\$720	0.36	\$720	0.72	\$1,440
	Sediment retention, erosion or water control structure	WP-1	acres treated	\$4,000	0	\$0	240	\$960,000	240	\$960,00
	Continuous no till	SL-15A		\$100	0	\$0	57	\$5,700	57	\$5,700
Cropland	Cover crops	SL-8B, SL-8H, SL-8M	acres	\$75	26	\$1,950	31	\$2,325	57	\$4,275
	Conversion from high till to low till	N/A	40.00	\$80	84	\$6,720	44	\$3,520	128	\$10,240
	Long term vegetation on cropland	SL-1		\$500	1	\$500	1	\$500	2	\$1,000
Hayland	Forest riparian buffers	DOF-RT, FR-3	acres	\$2,000	0	\$0	0	\$0	0	\$0
- Hajiana	Afforestation of haylands	FR-1	ucres	\$3,000	0	\$0	0	\$0	0	\$0
	TOTAL ESTIMATED COST					\$141,744		\$1,107,319		\$1,245,1

Table 8. Proposed staged implementation goals and costs of urban and residential BMPs by stage for Fryingpan Creek.

					Sta	ge 1	Sta	ge 2	то	TAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Erosion & sediment controls on transitional areas	N/A	acres treated	\$500	6 (2,000)	\$3,000	0 (0)	\$0	6 (2,000)	\$3,000
Residential stormwater	Raingardens	RG	system	\$3,000	0	\$0	3	\$9,000	3	\$9,000
	Forest riparian buffers	N/A	acres	\$1,750	0.1	\$175	0	\$0	0.1	\$175
	TOTAL ESTIMATED COST					\$3,175		\$9,000		\$12,175

Table 9. Proposed staged implementation goals and costs of streambank restoration BMPs by stage for Fryingpan Creek.

					Stag	ge 1	Sta	ge <b>2</b>	то	ΓAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
Streambank	Stre a mbank stabilization	WP-2A	feet	\$750	0	\$0	35	\$26,250	35	\$26,250
	TOTAL ESTIMATED COST					\$0		\$26,500		\$26,250

Table 10. Proposed staged implementation goals and costs of agricultural BMPs by stage for Beaverdam Creek.

Assumes one exclusion systemaverages 2,000 linear feet of stream fencing.

Note: Cropland practices are not needed. There are less than 30 acres of cropland in the watershed.

BMP Type	Practice	Cost share code	Units	Unit cost	Sta	ge 1	Sta	ge 2	тс	TAL
ымг туре	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Stream Exclusion with Narrow Width Bufferand Grazing Land Management	SL-6N		\$60,000	1 (2,000)	\$60,000	1 (2,000)	\$60,000	2 (4,000)	\$120,000
Livestock stream Exclusion	Stream Exclusion with Wide Width Buffer and Grazing Land Management	SL-6W, SL-6F	system (feet)	\$95,000	18 (36,000)	\$1,710,000	18 (36,000)	\$1,710,000	36 (72,000)	\$3,420,000
	Stream Exclusion with tree planting - CREP	CREP		\$100,000	1 (2,000)	\$100,000	1	\$100,000	2 (4,000)	\$200,000
	Exclusion fence maintenance (10 yrs)	CCI-SE-1, CCI-SL-6N- CCI-SL-6W	feet	\$5.50	4,029	\$22,160	4,029	\$22,160	8,058	\$44,320
	Extension of watering system	SL-7	system (acres)	\$13,000	1 (40)	\$13,000	1 (40)	\$13,000	2 (80)	\$26,000
	Pasture management	NRCS-CSP, SL-10		\$150	813	\$121,950	624	\$93,600	562	\$84,300
	Afforestation of erodible pasture	FR-1	acres	\$3,000	122	\$366,000	653	\$1,959,000	775	\$2,325,000
Pasture	Permanent vegetation on critical areas	SL-11		\$2,000	7	\$14,000	7	\$14,000	14	\$28,000
	Animal waste control facility (beef)	WP-4	system	\$100,000	1	\$100,000	1	\$100,000	2	\$200,000
	Barnyard runoff management	WQ-12	3y3tem	\$1,200	20	\$24,000	197	\$236,400	117	\$260,400
	Sediment retention, erosion, or water control structure	WP-1	acres treated	\$4,000	0	\$0	180	\$720,000	180	\$720,000
Hayland	Forest riparian buffers	DOF-RT, FR-3	acros	\$2,000	0	\$0	36	\$72,000	36	\$72,000
Hayland	Afforestation of haylands	FR-1	acres	\$3,000	0	\$0	0	\$0	0	\$0
	TOTAL ESTIMATED COST					\$2,431,110		\$5,000,160		\$7,255,700

Table 11. Proposed staged implementation goals and costs of urban and residential BMPs by stage for Beaverdam Creek.

					Sta	ge 1	Sta <sub>l</sub>	ge 2	то	ITAL
BMP Type	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
	Erosion & sediment controls on transitional areas	N/A	a cres treated	\$500	0	\$0	0	\$0	0	\$0
Residential stormwater	Rain gardens	RG	system	\$3,000	0	\$0	1	\$3,000	1	\$3,000
	Forest riparian buffers	N/A	acres	\$1,750	2	\$3,500	2	\$3,500	4	\$7,000
	TOTAL ESTIMATED COST					\$3,500		\$6,500		\$10,000

Table 12. Proposed staged implementation goals and costs of streambank restoration BMPs by stage for Beaverdam Creek.

	Positive.	Contract of the Contract of th	11-25-	11-21	Sta	ge 1	Sta	ge 2	то	TAL
ВМР Туре	Practice	Cost share code	Units	Unit cost	Number	Cost	Number	Cost	Number	Cost
Streambank	Stre a mbank stabilization	WP-2A	feet	\$750	1210	\$907,500	0	\$0	1210	\$907,500
	TOTAL ESTIMATED COST					\$907,500		\$0		\$907,500

Table 13. Proposed staged implementation goals and costs of septic BMPs by stage for Beaverdam Creek.

ВМР Туре	Practice	Cost share code	Units	Unit cost	Stage 1		Stage 2		TOTAL	
	Practice				Number	Cost	Number	Cost	Number	Cost
Septic	Onsite sewage system repair w/ permit	RB-3	repair	\$7,500	17	\$127,500	16	\$120,000	33	\$247,500
	Full inspection and non- permitted onsite sewage system repair	RB-3M		\$4,875	17	\$82,875	16	\$78,000	33	\$160,875
	Onsite sewage system installation/replacement	RB-4	system	\$12,500	18	\$225,000	17	\$212,500	35	\$437,500
33,000	Onsite sewage system installation.replacement w/pump	RB-4P		\$16,500	18	\$297,000	17	\$280,500	35	\$577,500
	Alternative sewage system	RB-5		\$31,500	19	\$598,500	19	\$598,500	38	\$1,197,000
	Septic tank pump-out	RB-1	pump-out	\$450	278	\$125,100	277	\$124,650	555	\$249,750
	TOTAL ESTIMATED COST		\$1,455,975		\$1,414,150		\$2,870,125			

Table 14. *Proposed* Overall Summary for BMP implementation costs by stage in all watersheds.

Watershed	Agricultural BMPs		Residential BMPs		Streambank BMPs		Septic BMPs		Costs		
	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Total
Pigg River	\$583,466	\$686,686	\$2,000	\$3,000	\$487,500	\$0	+	+	\$1,072,966	\$689,686	\$1,762,652
Poplar Branch	\$151,911	\$193,811	\$0	\$3,000	\$0	\$0	-	-	\$151,911	\$196,811	\$348,722
Fryingpan Creek	\$141,744	\$1,107,319	\$3,175	\$9,000	\$0	\$26,250	-	-	\$144,919	\$1,142,569	\$1,287,488
Beaverdam Creek	\$2,531,110	\$5,400,160	\$3,500	\$6,500	\$907,500	\$0	\$1,455,975	\$1,414,150	\$4,898,085	\$6,820,810	\$11,718,895
Total Estimated Cost	\$3,408,231	\$7,387,976	\$8,675	\$21,500	\$1,395,000	\$26,250	\$1,455,975	\$1,414,150	\$6,267,881	\$8,849,876	\$15,117,757