SKAGIT LEVEES

Nonstructural Alternatives

Lower Sedro-Woolley

Firs	st Costs	
(1)	Raise Structures	32,500
(2)	Buy-Outs	221,000
	Subtotal	\$253,500
	Contingencies (15%)	38,000
	Engineering Supervision and Administration (10%)	25,400
	Total	\$316,900
Annı	nal Costs (3-1/4%)	
	I&A	10,700
	0&M	0
	Total	\$10,700
Annı	ual Costs (6-7/8%)	
	I&A	\$21,800
	N&O	0
	Total	\$21,800

Lower Sedro - Woolley (Continued)

Annual Benefits

(1) Raise Buildings - elimination of Ave. Ann. \$2,300\frac{1}{2}\]

damages for 4 homes (for up to 100-year flooding)

(2) Buy-Outs

(a) Reduction in Emergency Aid and Public

Ave. Ann. Damages (7 homes) 1,700

(b) Savings in Insured Companies

Administration Costs (Overhead)\frac{2}{2}\]

100

(c) Reduction of Insurable Flood Damages

Total

1/Total Residential Ave. Ann. damages

(7 homes)

Total

2/Assume Administration Costs (mapping, overhead, etc.) are same as the annual premium paid by current flood plain users (7 homes)

4,600

\$8,700

West Mount Vernon - Nonstructural

1 - 14 - 1 - 1 - 14 - 15 - 1

Assume: (1) Evacuate current Residential/Commercial/uses				
(2) No physical relocation of existing structures				
(3) Convert Flood plain to public park (recreation	ial usage)			
First Costs				
(1) Acquisition of lands and structures	\$846,000			
(2) Remove Structures (Mobile utility homes)	5,000			
(other commercial and residential)	25,000			
(3) Convert land to public park	100,000			
subtotal	\$976,000			
(4) Contingencies 15%	146,000			
(5) Engineering, Supervision and Administration (10%)	98,000			
Total \$	31,220,000			
Annual Costs (3-1/4%)				
I&A (100-year 3-1/4%)	\$41,000			
O&M (Recreation site)	1,000			
Total	\$42,000			
Annual Costs 6-7/8%				
I&Λ	\$84,000			
M&O	1,000			
Total	\$85,000			

West Mount Vernon (Continued)

Annual Benefits

(1)	Reduction in Emergency Aid & Public	\$ 4,000
	Ave. Ann. Damages	
(2)	Savings in Insured Companies	
	Administration Costs - (overhead) $\frac{2}{}$	600
(3)	Value of Recreation Visitor Days $\frac{1}{2}$	8,000
(4)	Reduction of Insurable Flood Damages	19,000
	Total	\$31,600

B/C = .75 @ 3-1/4%

B/C = .37 @ 6-7/8%

- 2/Assume Administration costs (mapping, overhead, etc.) are the same as the annual premium paid by current flood plain users.
- $1/\Delta$ ssume 25% of expected river related recreational usage will use new park 23,000 x \$1.50 = \$34,000 x .25 = \$8,000 (4 parks will be part of recommended plan)

Clear Lake - Nonstructural

Structural is least cost alternative

1 . 14

Nookachamps - Nonstructural

Firs	6.9	
(1)	Raise Structures	\$192,500
(2)	Move Trailers	45,000
(3)	Buy-Outs	678,000
(4)	Cattle Pad	138,500
	Subtotal	\$1,054,000
	Contingencies (15%)	158,000
	Engineering, Supervision & Administration (10%)	105,000
	Total	\$1,317,000
	*	
Annu	al Costs (3-1/4%)	
	I&A	44,600
	O&M	0
	Total	\$44,600
Annu	al Costs (6-7/8%)	
	I&A	90,700
	O&M	0
	Total	\$90,700

Nookachamps (Continued)

Annual Benefits

(1)	Rais	se Buildings - elimination of Ave. Ann.	\$12,500
	dama		
(2 &	3)	Move Trailers and Buy-outs	124
	(a)	Reduction in Emergency Aid and Public	
		Ave. Ann. Damages (18 homes and 4 families)	1,000
	(b)	Savings in Insured Companies	
		Administration Costs (overhead) $\frac{1}{2}$ /	200
	(c)	Reduction of Insurable Flood Damages	
		(18 homes and 4 trailers)	7,000
(4)	Catt	tle Pad	5,500
		Total	\$26,200
B/C	@ 3-1	1/4 0.59	
B/C	@ 6-7	7/8 0.29	

1/Assume Administration Costs (mapping, overhead, etc.) are same as the annual premium paid by current flood plain users (18 properties and 4 trailers).