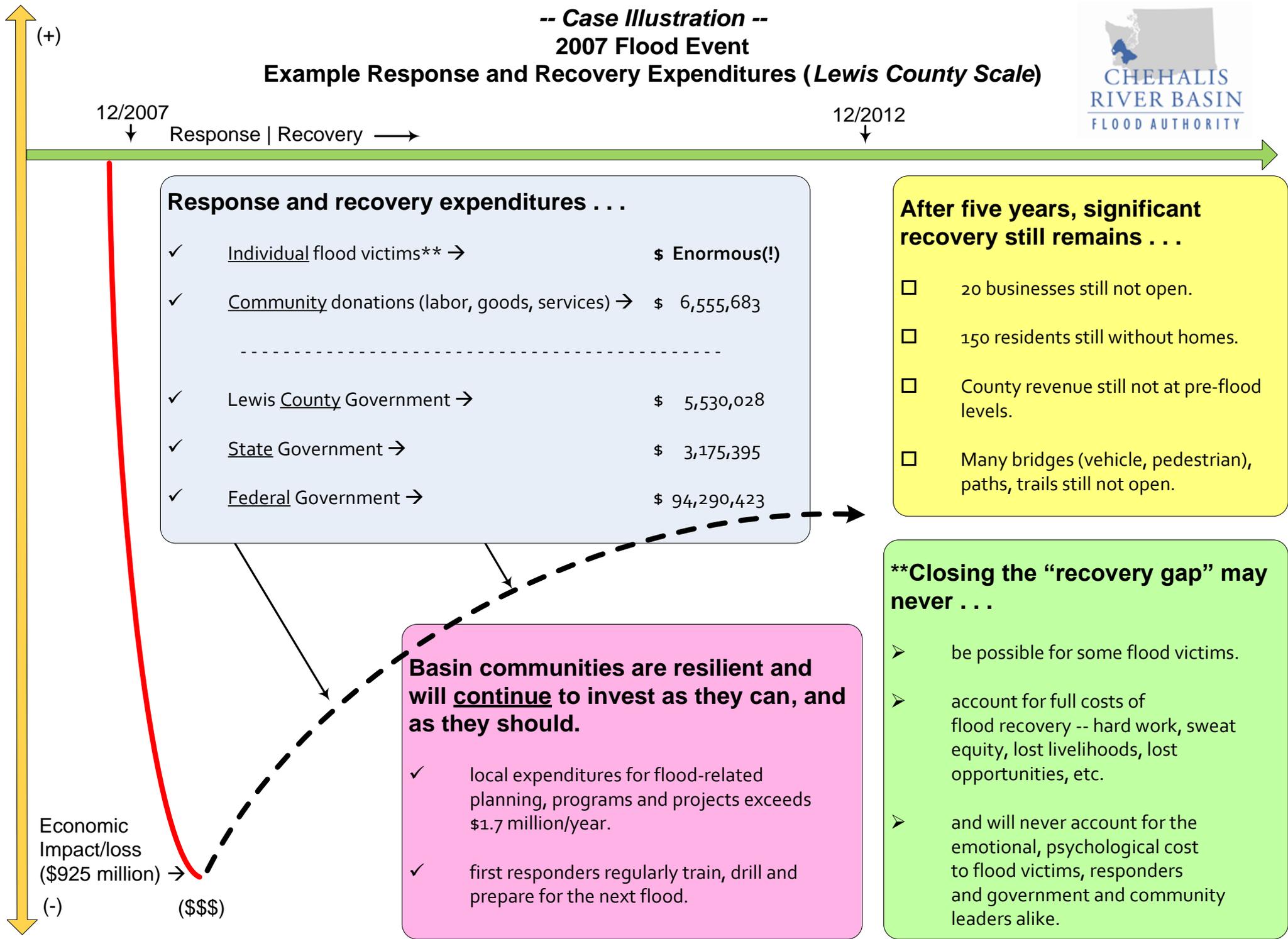


**-- Case Illustration --
2007 Flood Event**

Example Response and Recovery Expenditures (Lewis County Scale)



Response and recovery expenditures . . .

✓	<u>Individual</u> flood victims** →	\$ Enormous(!)
✓	<u>Community</u> donations (labor, goods, services) →	\$ 6,555,683

✓	Lewis <u>County</u> Government →	\$ 5,530,028
✓	<u>State</u> Government →	\$ 3,175,395
✓	<u>Federal</u> Government →	\$ 94,290,423

- After five years, significant recovery still remains . . .**
- 20 businesses still not open.
 - 150 residents still without homes.
 - County revenue still not at pre-flood levels.
 - Many bridges (vehicle, pedestrian), paths, trails still not open.

Basin communities are resilient and will continue to invest as they can, and as they should.

- ✓ local expenditures for flood-related planning, programs and projects exceeds \$1.7 million/year.
- ✓ first responders regularly train, drill and prepare for the next flood.

****Closing the “recovery gap” may never . . .**

- be possible for some flood victims.
- account for full costs of flood recovery -- hard work, sweat equity, lost livelihoods, lost opportunities, etc.
- and will never account for the emotional, psychological cost to flood victims, responders and government and community leaders alike.

Economic Impact/loss (\$925 million) →
(-)
(\$\$\$)

Case Illustration:
2007 Event -- Example Response/Recovery Expenditures (Lewis County Scale)
Ver. 1 -- 2/8/2013

	Impact/Loss (\$)	Source
Basin-wide economic impact/loss -->	\$ 925,281,000	FCS Group; <i>Chehalis River Basin Flood District Formation Study</i> , May 2011; Table II.9.

	Expenditures (\$)	Source
Federal Government -->	\$ 94,290,423	
IHP Totals	\$ 12,196,554	
SBA Disaster Loans	\$ 23,314,900	Earth Economics; <i>Flood Protection and Ecosystem Services in the Chehalis River Basin</i> , May 2010; Page 9.
Public Assistance	\$ 11,025,140	
FHA	\$ 6,832,107	
Nat'l Flood Insurance	\$ 40,338,076	
Fed Funds to Lewis County Con District	\$ 583,646	Bob Amrine, Lewis County Conservation District, 2/01/2013 email.
State Government -->	\$ 3,175,395	
WSDOT (I-5, SR6)	\$ 750,000	Bart Gernhart, 2/07/2013 emails.
DNR	***	*** Pending
State funds to Lewis County Con District (Fed eligible)	\$ 259,616	Bob Amrine, Lewis County Conservation District, 2/01/2013 email.
State funds to Lewis County Con District (Fed ineligible)	\$ 365,778	
State's 12.5% FEMA contribution	\$ 1,800,000	Tim Elsea, Lewis County Public Works, 2/05/2013 email
Local Government -->	\$ 5,530,028	
Lewis County Division of Emergency Management (ICP -- Operations/Recovery)	\$ 1,000,000	Lewis County Sheriff's Office; Flood Presentation 2007.PPT; October 2008.
Lewis County Public Works	\$ 1,880,028	Tim Elsea, Lewis County Public Works, 2/05/2013 email
Unreimbursed Public Agency Costs -- Value of private debris removal not covered by FEMA (Centralia -- \$876,000; Chehalis -- \$700,00; County mobile home removal -- \$828,000; Free watertesting -- \$12,000)	\$ 2,650,000	Jill Kangas, email, 2/06/2013

Local Community -->	\$	6,555,683	
Eagles Warehouse -- Value of donated furniture, appliances, and bedding (e.g., from Sleep Country USA and Quality Furniture Rentals) and volunteer hours.	\$	219,890	
Yardbirds Warehouse -- Value of donated furniture, appliances, and bedding (e.g., from Sleep Country USA and Quality Furniture Rentals) and volunteer hours.	\$	287,832	
Emergency Management -- Value of damage assessment/coordination.	\$	54,716	
Damage Assessment Volunteers -- Value of volunteer hours.	\$	11,520	
Community Development -- Value of damage assessment support and secretarial assistance.	\$	3,200	
NGO: Church of Latter Day Saints -- Volunteer hours and cleaning kits.	\$	1,005,000	
Meals Served -- Value of meals delivered and served (by volunteers) to responders/assistors.	\$	180,000	
Boistfort Grange -- Value of use of facility and staffing for 146 days(!) for response/recovery operations and logistics, including value of 9,000 meals donated for and value of cleanup volunteers.	\$	1,108,740	Ross McDowell, Lewis County Sheriff's Office, DEM, 2/04/2013 email; Jill Kangas, Lewis County Sheriff's Office, DEM, 2/06/2013 email.
Security Patrols -- Value of volunteer shifts by Sheriff's Office.	\$	8,085	
Medical Reserve Corps -- Value of volunteers hours.	\$	10,000	
Volunteer Fire Department Costs -- Value of volunteer staff for water hauling	\$	13,000	
Local Business Donations -- Value of: (1) donated supplies by Wal-Mart, Home Depot and Palmer Lumber -- \$50,000; (2) donated staff, equipment usage and donated funds by Trans Alta -- \$250,000; (3) employee assistance provided by Providence Hospital -- \$413,700.	\$	713,700	
Non-Profit Organizations: Value of Red Cross and United Way assistance with clothing outlet staffing, donation collections, and fiscal management services.	\$	50,000	
United Way cash donations.	\$	1,200,000	
American Red Cross cash donations.	\$	832,000	Lewis County Sheriff's Office, DEM; December 3 Flood One-Year Later 8/01/2000

Donated animal medical, feed and hay.	\$	250,000	Trident Seafoods, 8/01/2009.
WA State Bureau -- Cash donations.	\$	275,000	WA Farm Bureau; 2007 Storm Presentation.PPT, 8/01/2008.
WA State Dairy Federation -- Donated dairy cows, cash.	\$	300,000	Jay Gordon, telephone call, 2/06/2013.
Trident Seafoods -- Value of donations.	\$	33,000	J. Vander Stoep, 2/06/2013 email.

Goods, Services, Volunteer hours donated (Churches -- Catholic, Mennonite, Southern Baptist, Seventh Day Adventist, and more . . ., Salvation Army, Boistfort Emergency Action Group, Adna Action Group, Friends of Lewis County Animal Shelter, National Guard, Twin City Rotary, Twin City Sertoma, Trident Seafood, Vanity Fair, US Farm Bureau, Weyerhauser, Chehalis and Centralia Rotary Clubs).

*** Pending ***

Case illustration:
Example On-going Investments in Planning, Programs and Projects in the Chehalis Basin
 Ver. 1 -- 2/8/2013

EXAMPLE Investments Made with Local \$\$¹		
	Investment	Annualized
Planning/Prevention Studies and Activities (1997 to present) -->	\$ 6,888,542	\$ 459,236
Upper basin hydrology study with USACE (local match)	\$ 6,000,000	
Basin-wide GI study with USACE (local match 2004-2011)	\$ 321,357	
South Lewis County sub-area flood hazard planning	\$ 225,000	
Local flood prevention studies	\$ 95,000	
LiDAR (past several years)	\$ 247,185	
Prevention and Response Programs (2006 to present) -->	\$ 6,000,000	\$ 1,000,000
Home elevation/buy-outs (local match)	\$ 6,000,000	
Gage maintenance -- annual		\$ 110,000
Protection and Restoration Projects (1999 to present) -->	\$ 2,280,209	\$ 175,401
Habitat restoration WRIA 22/23 (local match)	\$ 1,780,209	
Culvert replacements, County road projects, scour mitigation/bank protection and normal ditching/flood mitigation (annually)	\$ 500,000	
Total -->	\$ 15,168,751	\$ 1,744,637

Note1 -- Chehalis River Basin Flood Authority, a local entity representing town, city and county governments across the Basin, has additionally funded with State Capital Budget \$\$ several key technical studies and prevention tools (Early-Warning System).