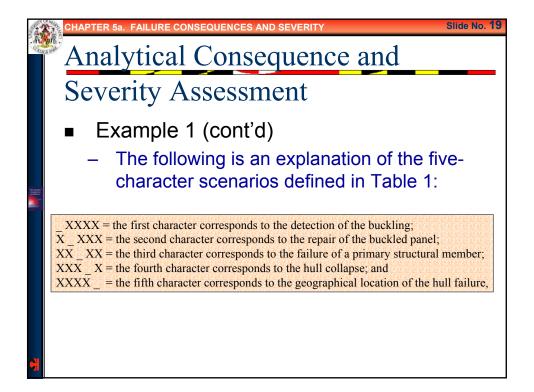
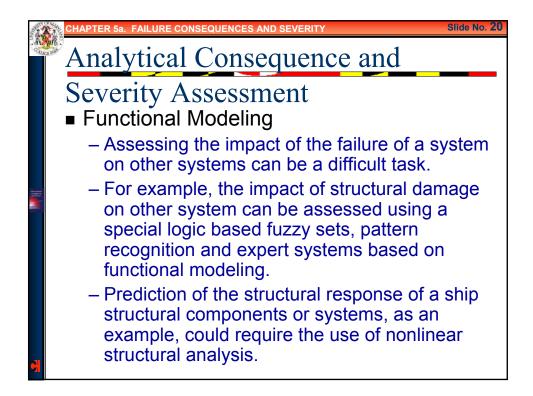
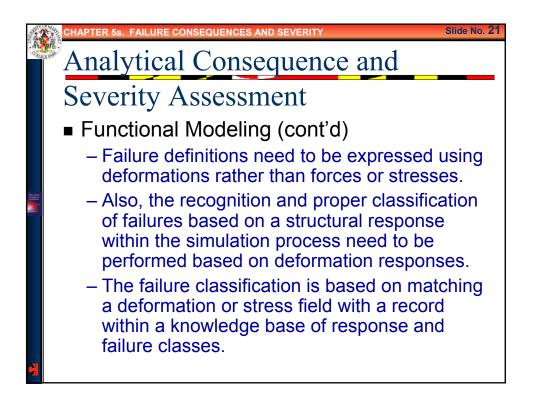
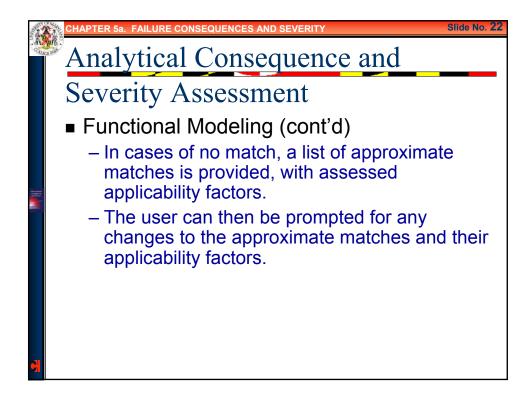


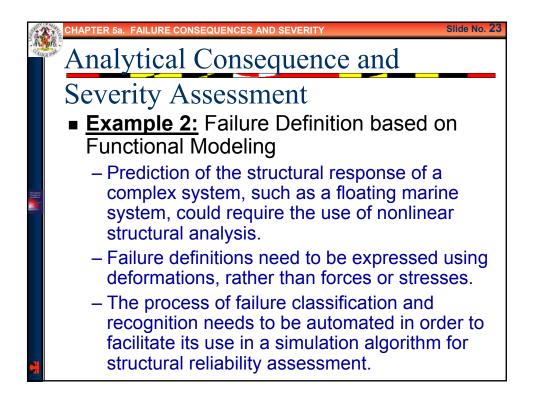
Ana	lyti	cal C	Consec	juence	e and		
	Structur	al Consec	Sessm(quences Asso		he Bucklir	ng of an	
Failure Scenario ¹		1		Severities			
Definition	Crew	Cargo	Environment	Non-crew	Structural System	Inspection and Repair	Ratin
YYUUU	None	None	None	None	None	Cost of inspection and repair	1
YNYYO NUYYO	Injuries and deaths	Loss of cargo	Contamination with oil (fuel and lubricant) and cargo	None	Loss of ship	Cost of inspection	5
YNYYH NUYYH	Injuries and deaths	Loss of cargo	Contamination with oil (fuel and lubricant) and cargo, death of marine animals and plants	Financial problems due to loss of economic activities, health problems due to sea pollution	Loss of ship	Cost of inspection	5
YNYNU NUYNU	None	Damage to containers	None	None	Extensive damage	Cost of inspection	3
YNNUU	None	None	None	None	Local		2

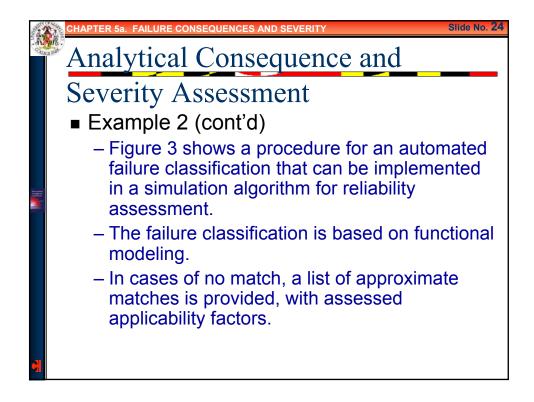


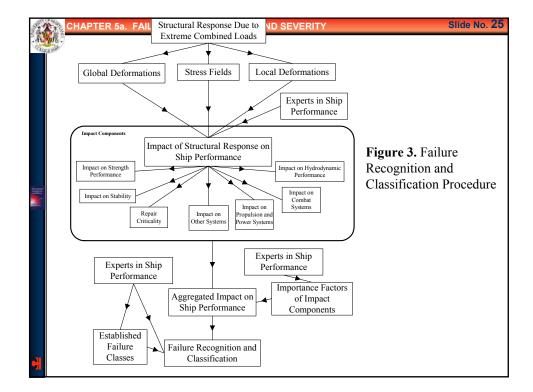


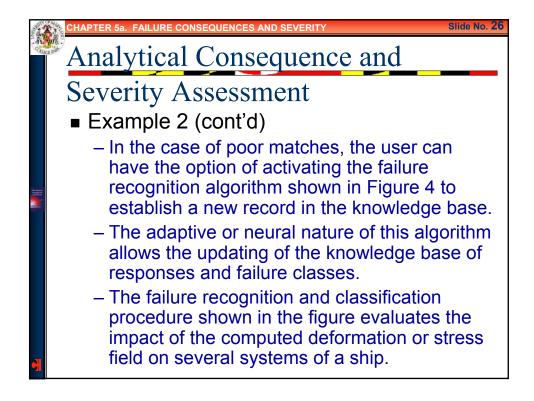


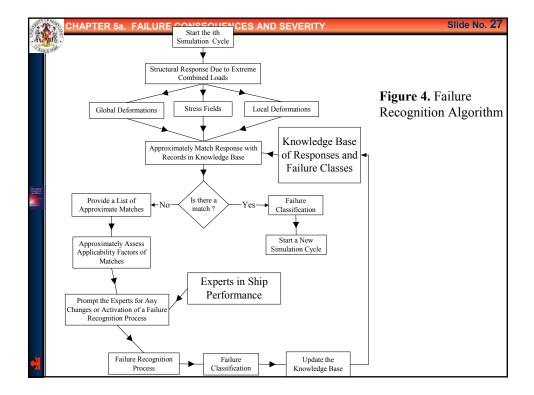


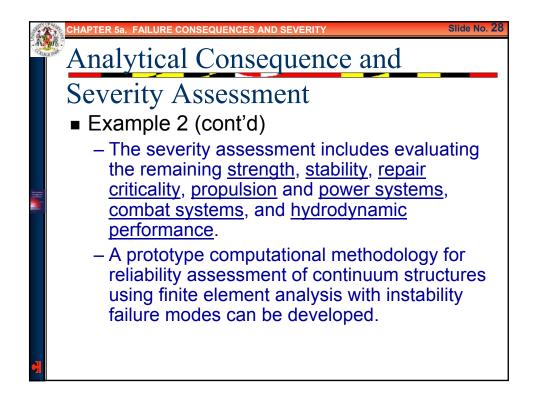


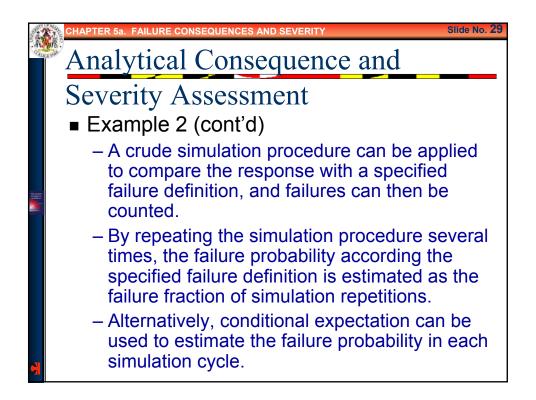


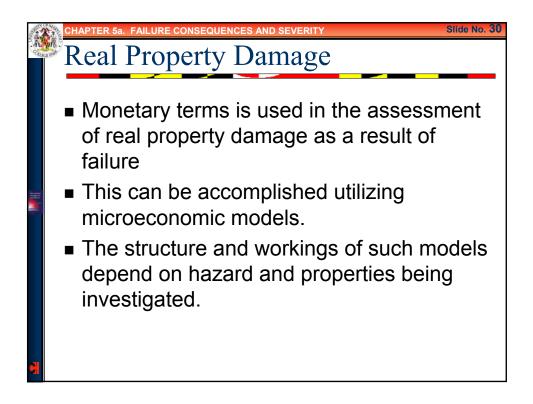


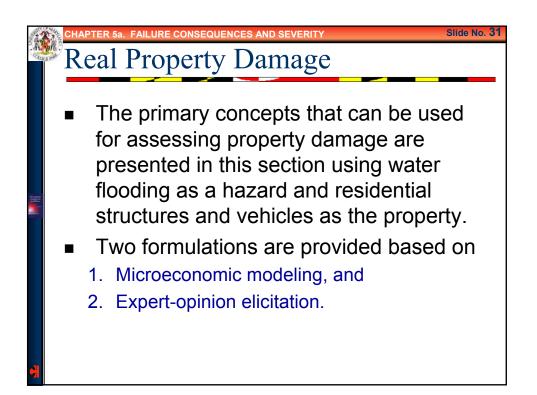


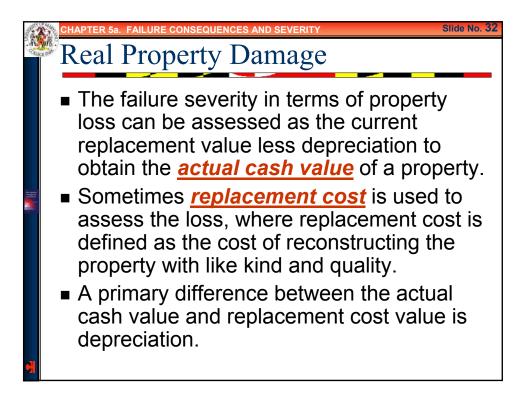


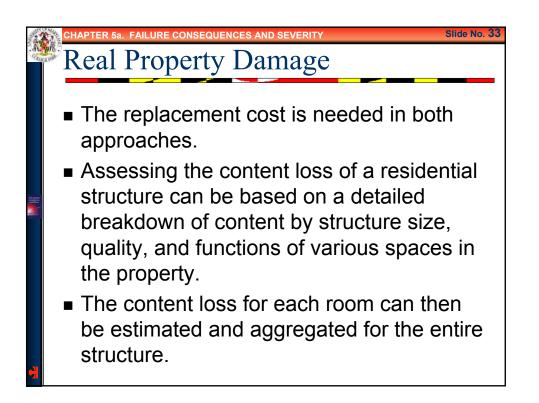


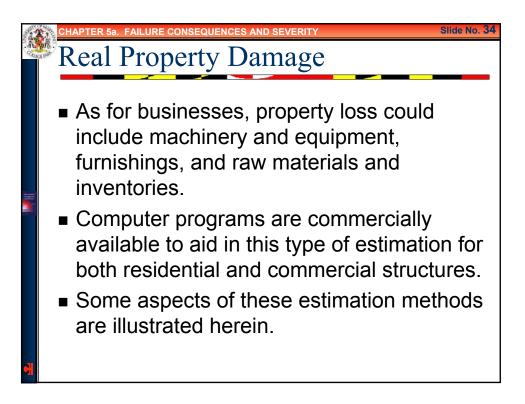


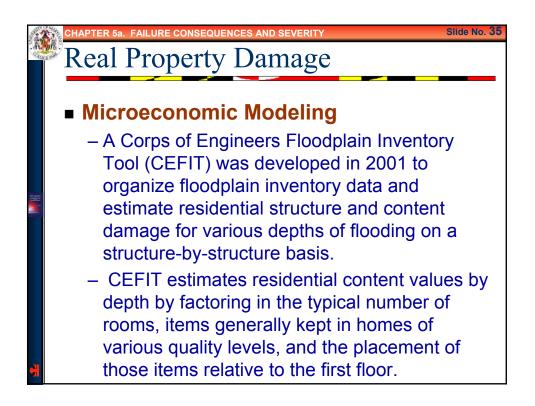


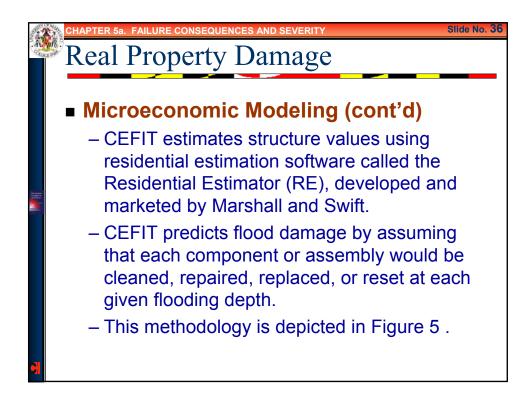


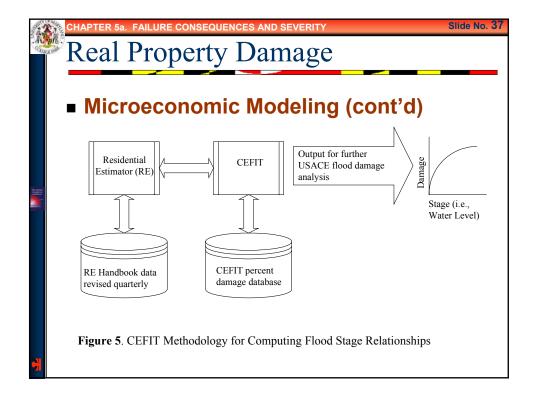


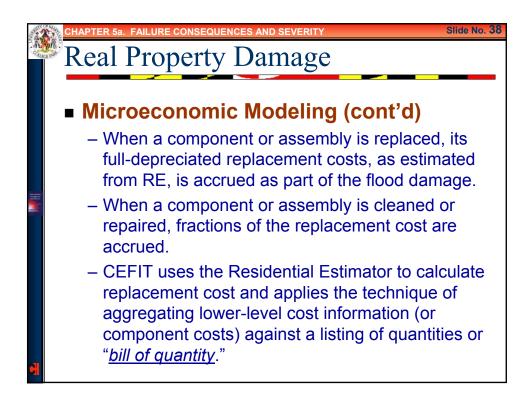


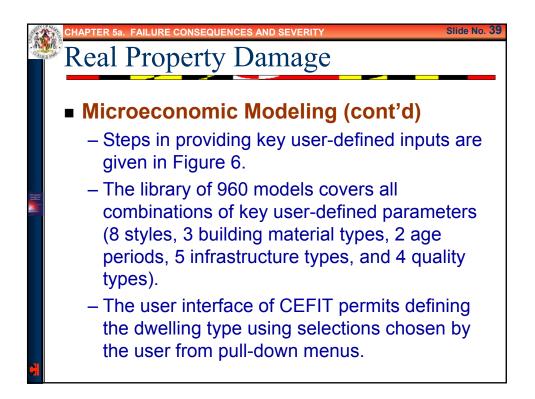


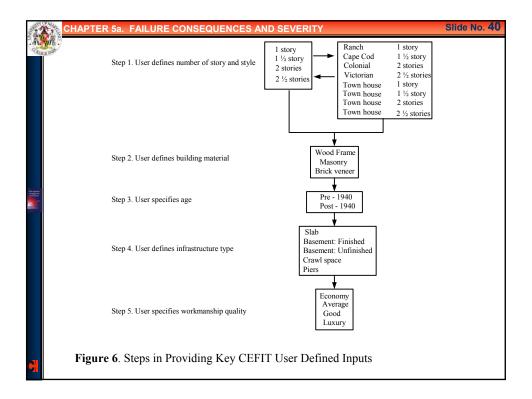


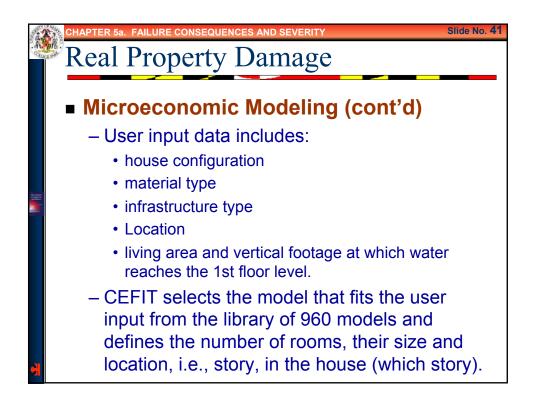


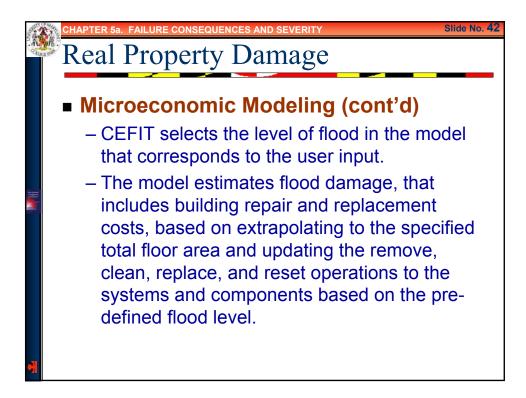


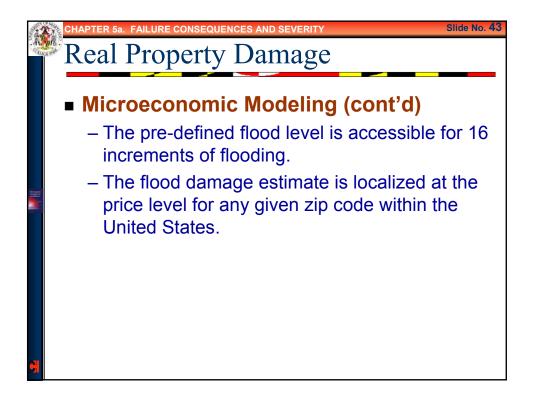


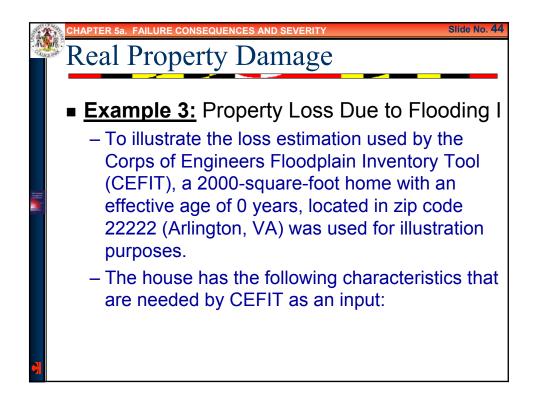


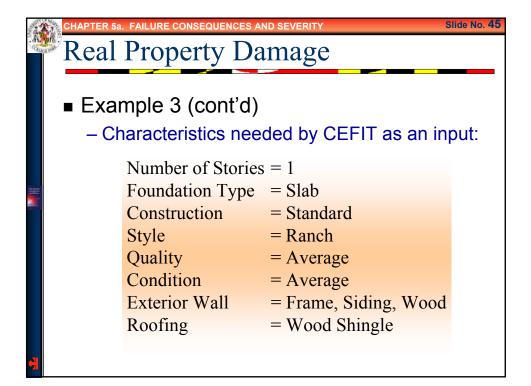


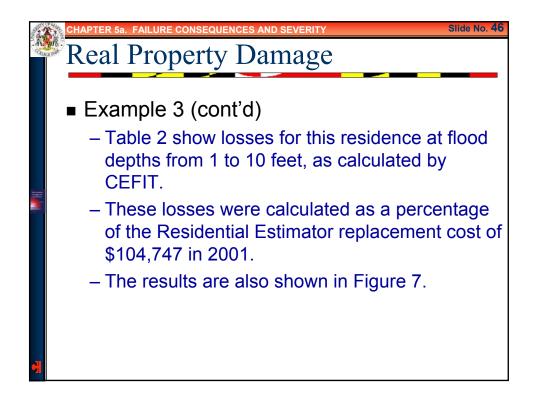




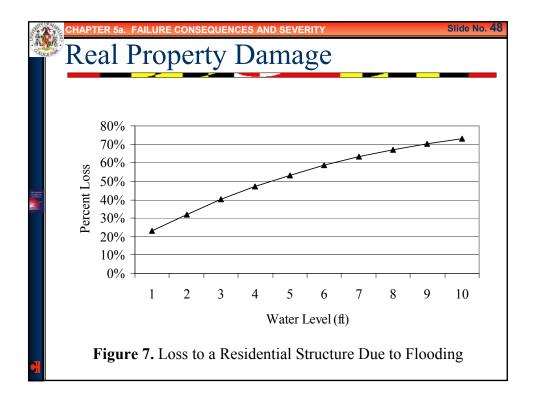


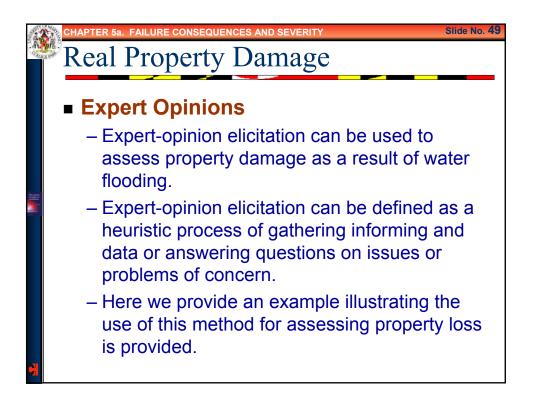


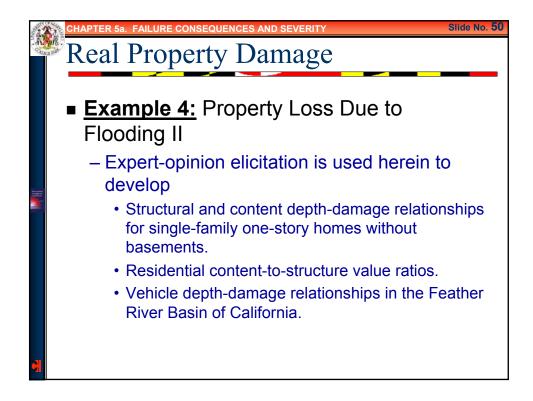


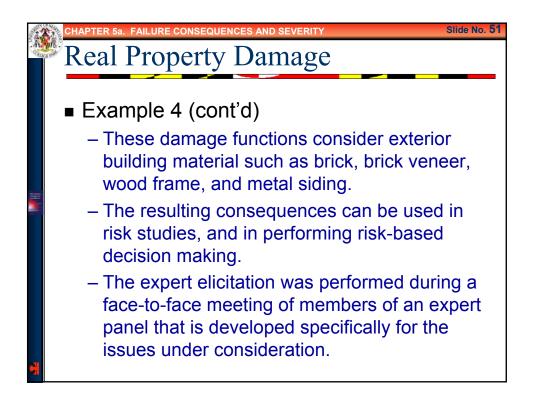


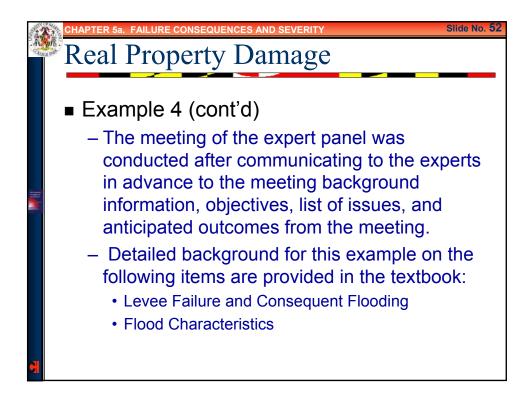
APTER 5a. FAILURE CONS			Slide N
eal Proper	ty Damag	ge	
Table 2. Losses as	s a Function of W	ater Depth	
		Percent of Total	
Water Level (ft)	Damage \$	Replacement Cost	
1	\$24,406	23	
2	\$33,624	32	
3	\$42,004	40	
4	\$49,336	47	
5	\$55,725	53	
6	\$61,382	59	
7	\$66,200	63	
8	\$70,390	67	
9	\$73,847	71	
10	\$76,675	73	

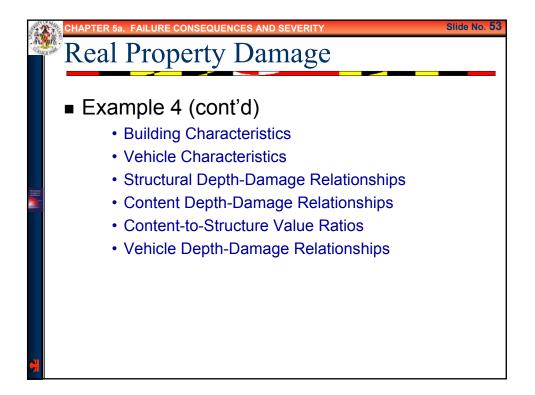






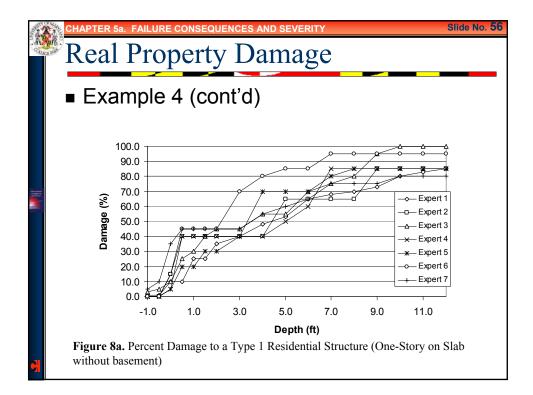


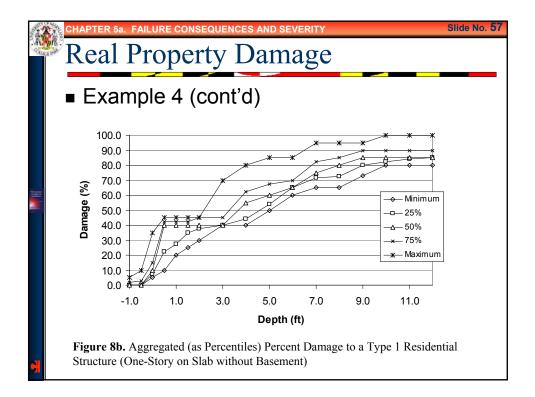




En al		CHAPTER 5a. FAILURE CONSEQUENCES AND	SEVERITY Slide No. 54
. A.	CE PN	Real Property Dan	nage
		Example 4 (cont'd)	
			nd Assumptions by Experts for Structure Value
		Houses Types 1 and 2	Houses Type 3
		Median house size of 1400 SF	Median size of 24 ft by 60 ft (1200 SF)
		Wood frame homes	Wood frame homes
		Median house value of \$90,000 with land	Median house value of \$30,000 without land
		Median land value of \$20,000	Median house age of 8 years
		Median price without land is about \$50 per	Finished floor is 3 ft above ground level
		square foot	8 ft ceiling height
		Median house age of 8 years	HVAC and sewer lines below finished floor
		Type 2 has HVAC and sewer lines below	Percentages are of depreciated replacement
		finished floor	value of houses
		Percentages are of depreciated replacement	Flood without flow velocity
		value of houses	Several days of flood duration
		Flood without flow velocity	Flood water is not contaminated, but has
		Several days of flood duration	sediment without large debris
		Flood water is not contaminated, but has	No septic field damages
		sediment without large debris	Allow for cleanup cost
		No septic field damages	
9		Allow for cleanup cost	

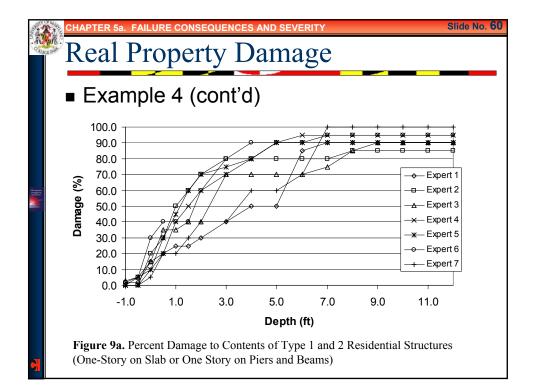
ic put		I	nitial I	estimate	e: % Da	mage h	v Exper	rt		А	ggregate	d Oninio	ns		
Depth		1	2	3	4	image i 5	6 g Exper	7	Mir		25%	50%	75% N	/lax	
	-1.0	4.0	0.0	3.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	1.5	4.0	
	-0.5	4.0	0.0	5.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	2.0	5.0	
	0.0	5.0	0.0	10.0	5.0	0.0	10.0	0.0		0.0	0.0	5.0	7.5	10.0	
	0.5	10.0	40.0	12.0	7.0	10.0	13.0	45.0		7.0	10.0	12.0	26.5	45.0	
	1.0	15.0	40.0	25.0	9.0	20.0	15.0	55.0		9.0	15.0	20.0	32.5	55.0	
	1.5	20.0	40.0	28.0	11.0	30.0	20.0	55.0		11.0	20.0	28.0	35.0	55.0	
	2.0	30.0	40.0	35.0	13.0	30.0	20.0	60.0		13.0	25.0	30.0	37.5	60.0	
	3.0	40.0	40.0	35.0	15.0	40.0	30.0	60.0		15.0	32.5	40.0	40.0	60.0	
	4.0	48.0	40.0	40.0	25.0	70.0	50.0	65.0		25.0	40.0	48.0	57.5	70.0	Table 4. Percent
	5.0	53.0	65.0	40.0	40.0	70.0	85.0	70.0		40.0	46.5	65.0	70.0	85.0	Table 4. I ciccili
	6.0	65.0	65.0	45.0	50.0	70.0	85.0	75.0		45.0	57.5	65.0	72.5	85.0	Damage to a Residen
	7.0	68.0	70.0	75.0	70.0	80.0	90.0	75.0		68.0	70.0	75.0	77.5	90.0	C
	8.0	70.0	75.0	80.0	90.0	80.0	90.0	75.0		70.0	75.0	80.0	85.0	90.0	Structure Type 1:
	9.0	73.0	85.0	95.0	100.0	95.0	90.0	75.0		73.0	80.0	90.0	95.0	100.0	~ .
	10.0	80.0	85.0	100.0	100.0	100.0	100.0	80.0		80.0	82.5	100.0	100.0	100.0	One-Story Without
	11.0	83.0	85.0	100.0	100.0	100.0	100.0	80.0		80.0	84.0	100.0	100.0	100.0 100.0	Basement on Slab
	12.0	85.0	85.0	100.0	100.0	100.0	100.0	80.0	1	80.0	85.0	100.0	100.0	100.0	
		1	Revised	Estime	ite: % I	Jamage	hy Eyn	ert		4	ggregate	d Oninio	ns		
Depth		1	Revised 2	Estima 3	ite: % I 4	Damage 5	by Exp 6	ert 7	Mii		ggregate 25%	d Opinio 50%	ns 75% N	dax	
Depth	-1.0	1 1.0					• •		Mi					Max 5.0	
	-1.0	1	2	3	4	5	6	7	Mi	in	25%	50%	75% N		
		1.0	2 0.0	3.0	4 0.0	5 0.0	<u>6</u> 0.0	7 5.0	Mi	in 0.0	25% 0.0	50% 0.0	75% M	5.0	
	-0.5	1 1.0 1.0	2 0.0 0.0	3.0 5.0	4 0.0 0.0	0.0 0.0	0.0 0.0	7 5.0 10.0	Mi	in 0.0 0.0	25% 0.0 0.0	50% 0.0 0.0	75% M 2.0 3.0	5.0 10.0	
	-0.5 0.0	1.0 1.0 10.0	2 0.0 0.0 15.0	3.0 5.0 10.0	4 0.0 0.0 5.0	0.0 0.0 5.0	6 0.0 0.0 15.0	5.0 10.0 35.0		in 0.0 0.0 5.0	25% 0.0 0.0 7.5	50% 0.0 0.0 10.0	75% M 2.0 3.0 15.0	5.0 10.0 35.0	
	-0.5 0.0 0.5	1.0 1.0 10.0 10.0	2 0.0 0.0 15.0 40.0	3.0 5.0 10.0 25.0	4 0.0 0.0 5.0 40.0	0.0 0.0 5.0 20.0	6 0.0 0.0 15.0 45.0	7 5.0 10.0 35.0 45.0		in 0.0 0.0 5.0 10.0	25% 0.0 0.0 7.5 22.5	50% 0.0 0.0 10.0 40.0	75% M 2.0 3.0 15.0 42.5	5.0 10.0 35.0 45.0	
	-0.5 0.0 0.5 1.0	1.0 1.0 10.0 10.0 25.0	2 0.0 15.0 40.0 40.0	3.0 5.0 10.0 25.0 30.0	4 0.0 5.0 40.0 40.0	5 0.0 0.0 5.0 20.0 20.0	6 0.0 15.0 45.0 45.0	7 5.0 10.0 35.0 45.0 45.0		in 0.0 0.0 5.0 10.0 20.0	25% 0.0 0.0 7.5 22.5 27.5	50% 0.0 0.0 10.0 40.0 40.0	75% N 2.0 3.0 15.0 42.5 42.5	5.0 10.0 35.0 45.0 45.0	
	-0.5 0.0 0.5 1.0 1.5	1.0 1.0 10.0 10.0 25.0 25.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 45.0	4 0.0 5.0 40.0 40.0 40.0 40.0 40.0	5 0.0 0.0 5.0 20.0 20.0 30.0	6 0.0 15.0 45.0 45.0 45.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0		in 0.0 0.0 5.0 10.0 20.0 25.0	25% 0.0 7.5 22.5 27.5 35.0	50% 0.0 0.0 10.0 40.0 40.0 40.0	75% M 2.0 3.0 15.0 42.5 42.5 42.5	5.0 10.0 35.0 45.0 45.0 45.0 45.0 70.0	
	-0.5 0.0 0.5 1.0 1.5 2.0	1.0 1.0 10.0 10.0 25.0 25.0 35.0	2 0.0 15.0 40.0 40.0 40.0 40.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0	4 0.0 5.0 40.0 40.0 40.0 40.0	5 0.0 0.0 5.0 20.0 20.0 30.0 30.0	6 0.0 15.0 45.0 45.0 45.0 45.0 45.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0		in 0.0 5.0 10.0 20.0 25.0 30.0	25% 0.0 7.5 22.5 27.5 35.0 37.5	50% 0.0 10.0 40.0 40.0 40.0 40.0	75% M 2.0 3.0 15.0 42.5 42.5 42.5 42.5 45.0	5.0 10.0 35.0 45.0 45.0 45.0 45.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0	1 1.0 10.0 10.0 25.0 25.0 35.0 40.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 45.0	4 0.0 5.0 40.0 40.0 40.0 40.0 40.0	5 0.0 0.0 5.0 20.0 20.0 30.0 30.0 40.0	6 0.0 15.0 45.0 45.0 45.0 45.0 70.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0		in 0.0 5.0 10.0 20.0 25.0 30.0 40.0	25% 0.0 7.5 22.5 27.5 35.0 37.5 40.0	50% 0.0 10.0 40.0 40.0 40.0 40.0 40.0 40.0	75% M 2.0 3.0 15.0 42.5 42.5 42.5 42.5 45.0 45.0	5.0 10.0 35.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0	1.0 1.0 10.0 25.0 25.0 35.0 40.0 48.0 53.0 65.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0 65.0 65.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 55.0 55.0 70.0	4 0.0 5.0 40.0 40.0 40.0 40.0 40.0 50.0 60.0	5 0.0 0.0 5.0 20.0 20.0 30.0 30.0 40.0 70.0 70.0 70.0	6 0.0 0.0 15.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0 55.0 60.0 65.0		in 0.0 5.0 10.0 20.0 25.0 30.0 40.0 40.0 50.0 60.0	25% 0.0 0.0 7.5 22.5 27.5 35.0 37.5 40.0 44.0 54.0 65.0	50% 0.0 0.0 10.0 40.0 40.0 40.0 55.0 60.0 65.0	75% N 2.0 3.0 15.0 42.5 42.5 42.5 45.0 45.0 62.5 67.5 70.0	5.0 10.0 35.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0	1.0 1.0 10.0 25.0 25.0 35.0 40.0 48.0 53.0 65.0 68.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0 65.0 65.0 65.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 55.0 55.0 70.0 75.0	4 0.0 5.0 40.0 40.0 40.0 40.0 40.0 50.0 60.0 85.0	5 0.0 0.0 5.0 20.0 20.0 30.0 30.0 40.0 70.0 70.0 70.0 80.0	6 0.0 15.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0 60.0 65.0 75.0		in 0.0 0.0 5.0 10.0 25.0 30.0 40.0 40.0 50.0 60.0 65.0	25% 0.0 7.5 22.5 27.5 35.0 37.5 40.0 44.0 54.0 65.0 71.5	50% 0.0 0.0 10.0 40.0 40.0 40.0 40.0 55.0 60.0 65.0 75.0	75% N 2.0 3.0 15.0 42.5 42.5 42.5 45.0 62.5 67.5 70.0 82.5	5.0 10.0 35.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0	1.0 1.0 10.0 25.0 25.0 35.0 40.0 48.0 53.0 65.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0 65.0 65.0 65.0 65.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 45.0 55.0 55.0 70.0 75.0 80.0	4 0.0 0.0 5.0 40.0 40.0 40.0 40.0 50.0 60.0 85.0 85.0	5 0.0 0.0 5.0 20.0 20.0 30.0 30.0 40.0 70.0 70.0 70.0	6 0.0 0.0 15.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0 60.0 65.0 75.0 75.0		in 0.0 0.0 5.0 10.0 20.0 25.0 30.0 40.0 50.0 60.0 65.0 65.0	25% 0.0 7.5 22.5 27.5 35.0 37.5 40.0 44.0 54.0 65.0 71.5 72.5	50% 0.0 0.0 10.0 40.0 40.0 40.0 40.0 60.0 65.0 75.0 80.0	75% N 2.0 3.0 15.0 42.5 42.5 42.5 42.5 45.0 62.5 67.5 70.0 82.5 85.0 85.0	5.0 10.0 35.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0 95.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1.0 1.0 10.0 25.0 25.0 35.0 40.0 48.0 53.0 65.0 68.0 70.0 73.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0 40.0 65.0 65.0 65.0 65.0 85.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 45.0 55.0 55.0 70.0 75.0 80.0 95.0	4 0.0 0.0 5.0 40.0 40.0 40.0 40.0 50.0 60.0 85.0 85.0	5 0.0 0.0 20.0 20.0 30.0 30.0 40.0 70.0 70.0 70.0 80.0 85.0 85.0	6 0.0 15.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0 95.0 95.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0 60.0 65.0 75.0 75.0 75.0 75.0		in 0.0 0.0 5.0 10.0 20.0 25.0 30.0 40.0 40.0 50.0 65.0 65.0 73.0	25% 0.0 0.0 7.5 22.5 27.5 35.0 37.5 40.0 54.0 65.0 71.5 72.5 80.0	50% 0.0 0.0 10.0 40.0 40.0 40.0 40.0 40.0 40.0 60.0 65.0 75.0 80.0 85.0	75% N 2.0 3.0 15.0 42.5 42.5 42.5 42.5 45.0 45.0 62.5 67.5 70.0 82.5 85.0 90.0 90.0	5.0 10.0 35.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0 95.0 95.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0	1.0 1.0 10.0 25.0 25.0 35.0 40.0 48.0 53.0 65.0 68.0 70.0	2 0.0 15.0 40.0 40.0 40.0 40.0 40.0 65.0 65.0 65.0 65.0	3.0 5.0 10.0 25.0 30.0 40.0 45.0 45.0 55.0 55.0 70.0 75.0 80.0	4 0.0 0.0 5.0 40.0 40.0 40.0 40.0 50.0 60.0 85.0 85.0	5 0.0 0.0 20.0 20.0 30.0 30.0 40.0 70.0 70.0 70.0 80.0 85.0	6 0.0 0.0 15.0 45.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0 95.0	7 5.0 10.0 35.0 45.0 45.0 45.0 45.0 45.0 60.0 65.0 75.0 75.0		in 0.0 0.0 5.0 10.0 20.0 25.0 30.0 40.0 50.0 60.0 65.0 65.0	25% 0.0 7.5 22.5 27.5 35.0 37.5 40.0 44.0 54.0 65.0 71.5 72.5	50% 0.0 0.0 10.0 40.0 40.0 40.0 40.0 60.0 65.0 75.0 80.0	75% N 2.0 3.0 15.0 42.5 42.5 42.5 42.5 45.0 62.5 67.5 70.0 82.5 85.0 85.0	5.0 10.0 35.0 45.0 45.0 45.0 70.0 80.0 85.0 85.0 95.0 95.0	

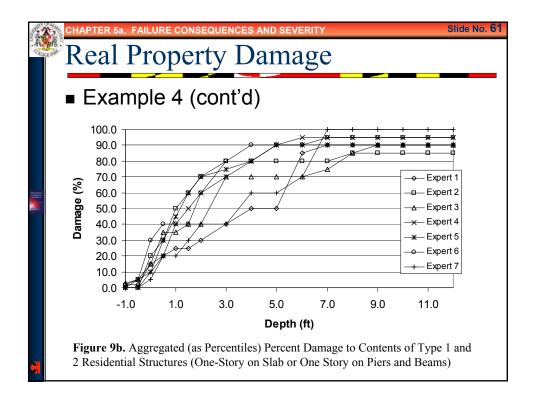




State of the state	CHAPTER 5a. FAILURE CONSEQUENCES AND SEVERITY Slide N	lo. 58
. A.	Real Property Damage	
	Example 4 (cont'd)	
	Table 5 . Summary of Supportive Reasoning and Assumptionsby Experts for Content Value	3
	Houses Types 1, 2 and 3	
	As a guide, the insurance industry uses 70% ratio for the content to structure value Median house value of \$90,000 with land Median land value of \$20,000 Garage or shed contents are included Median content age of 8 years Percentages are of depreciated replacement value of contents Flood without flow velocity Several days of flood duration Flood water is not contaminated, but has sediment without large debris	
	Allow for cleanup cost Insufficient time to remove (i.e. protect) contents	

ant.	HA	PTE	:R 58	a. F	AILU	JRE	COI	ISEC	IENCES AND	SE	:VER	ΙY			Slide No.
E 8 93		I	nifial E	stimate	e: % Da	mage h	v Exne	rt	1	A	ggregate	l Oninio	ns		
Depth		1	2	3	4	5	6	7	Min		25%	50%	75% N	/lax	
-	-1.0	0.5	0.0	3.0	0.0	0.0	10.0	0.0		0.0	0.0	0.0	1.8	10.0	
-	-0.5	0.5	0.0	5.0	0.0	0.0	20.0	0.0		0.0	0.0	0.0	2.8	20.0	
	0.0	2.0	30.0	15.0	0.0	0.0	40.0	5.0		0.0	1.0	5.0	22.5	40.0	
	0.5	2.0	40.0	35.0	20.0	50.0	40.0	10.0		2.0	15.0	35.0	40.0	50.0	
	1.0	15.0	50.0	35.0	40.0	50.0	40.0	20.0	1.	5.0	27.5	40.0	45.0	50.0	
		27.0	60.0	40.0	50.0	60.0	40.0	20.0		0.0	33.5	40.0	55.0	60.0	
		35.0	70.0	40.0	60.0	70.0	60.0	40.0		5.0	40.0	60.0	65.0	70.0	
		47.0	80.0	70.0	70.0	80.0	80.0	40.0		0.0	58.5	70.0	80.0	80.0	
		55.0	80.0	70.0	80.0	80.0	90.0	60.0		5.0	65.0	80.0	80.0	90.0 90.0	Table 6. Percent Damag
		80.0	80.0	70.0	90.0	90.0	90.0	60.0		0.0	75.0	80.0	90.0		
		90.0	80.0	70.0	100.0	100.0	90.0	85.0		0.0	82.5	90.0	95.0	100.0 100.0	to Contents of Resident
		90.0 90.0	80.0 85.0	75.0 85.0	100.0 100.0	100.0 100.0	95.0 100.0	95.0 100.0		5.0 5.0	85.0 87.5	95.0 100.0	97.5 100.0	100.0	Q4
		90.0	85.0	90.0	100.0	100.0	100.0	100.0		5.0	90.0	100.0	100.0	100.0	Structure Types 1 and 2
		90.0	85.0	90.0	100.0	100.0	100.0	100.0		5.0	90.0	100.0	100.0	100.0	One-Story on Slab or or
		90.0	85.0	90.0	100.0	100.0	100.0	100.0		5.0	90.0	100.0	100.0	100.0	One-story on stab of of
		90.0	90.0	90.0	100.0	100.0	100.0	100.0		0.0	90.0	100.0	100.0	100.0	Piers and Beams
			Davisad	Estima	te: % I		by Exp			A	ggregate				
Depth	1.0	1	2	3	4	5	6	7	Min		25%	50%	75% N		
	-1.0	1 2.0	2 0.0	3.0	0.0	0.0	2.0	0.0		0.0	0.0	0.0	2.0	3.0	
	-0.5	1 2.0 2.0	2 0.0 0.0	3.0 5.0	0.0 5.0	0.0 0.0	2.0 5.0	0.0 0.0		0.0	0.0 0.0	0.0 2.0	2.0 5.0	3.0 5.0	
-	-0.5 0.0	1 2.0 2.0 15.0	2 0.0 0.0 20.0	3.0 5.0 15.0	0.0 5.0 10.0	0.0 0.0 10.0	2.0 5.0 30.0	0.0 0.0 5.0		0.0 5.0	0.0 0.0 10.0	0.0 2.0 15.0	2.0 5.0 17.5	3.0 5.0 30.0	
	-0.5 0.0 0.5	1 2.0 2.0 15.0 20.0	2 0.0 0.0 20.0 30.0	3.0 5.0 15.0 35.0	0.0 5.0 10.0 20.0	0.0 0.0 10.0 30.0	2.0 5.0 30.0 40.0	0.0 0.0 5.0 20.0	2	0.0 5.0 0.0	0.0 0.0 10.0 20.0	0.0 2.0 15.0 30.0	2.0 5.0 17.5 32.5	3.0 5.0 30.0 40.0	
-	-0.5 0.0 0.5 1.0	1 2.0 2.0 15.0	2 0.0 20.0 30.0 50.0	3.0 5.0 15.0 35.0 35.0	0.0 5.0 10.0	0.0 0.0 10.0 30.0 45.0	2.0 5.0 30.0	0.0 0.0 5.0 20.0 20.0	2	0.0 5.0	0.0 0.0 10.0	0.0 2.0 15.0 30.0 40.0	2.0 5.0 17.5	3.0 5.0 30.0	
-	-0.5 0.0 0.5 1.0 1.5	1 2.0 2.0 15.0 20.0 25.0	2 0.0 0.0 20.0 30.0	3.0 5.0 15.0 35.0	0.0 5.0 10.0 20.0 40.0	0.0 0.0 10.0 30.0	2.0 5.0 30.0 40.0 40.0	0.0 0.0 5.0 20.0	2) 2) 2) 2	0.0 5.0 0.0 0.0	0.0 0.0 10.0 20.0 30.0	0.0 2.0 15.0 30.0	2.0 5.0 17.5 32.5 42.5	3.0 5.0 30.0 40.0 50.0	
-	-0.5 0.0 0.5 1.0 1.5 2.0	1 2.0 2.0 15.0 20.0 25.0 25.0	2 0.0 20.0 30.0 50.0 60.0	3.0 5.0 15.0 35.0 35.0 40.0	0.0 5.0 10.0 20.0 40.0 50.0	0.0 0.0 10.0 30.0 45.0 60.0	2.0 5.0 30.0 40.0 40.0 40.0	0.0 0.0 5.0 20.0 20.0 30.0	2 2 2 2 3	0.0 5.0 0.0 0.0 5.0	0.0 0.0 10.0 20.0 30.0 35.0	0.0 2.0 15.0 30.0 40.0 40.0	2.0 5.0 17.5 32.5 42.5 55.0	3.0 5.0 30.0 40.0 50.0 60.0	
-	-0.5 0.0 0.5 1.0 1.5 2.0 3.0	1 2.0 2.0 15.0 20.0 25.0 25.0 30.0	2 0.0 20.0 30.0 50.0 60.0 70.0	3.0 5.0 15.0 35.0 40.0 40.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0	2.0 5.0 30.0 40.0 40.0 40.0 60.0	0.0 0.0 5.0 20.0 20.0 30.0 40.0	2 2 2 3 4	0.0 5.0 0.0 0.0 5.0 0.0	0.0 0.0 10.0 20.0 30.0 35.0 40.0	0.0 2.0 15.0 30.0 40.0 40.0 60.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0	
-	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0	1 2.0 2.0 15.0 20.0 25.0 25.0 30.0 40.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0	3.0 5.0 15.0 35.0 40.0 40.0 70.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0	2.0 5.0 30.0 40.0 40.0 40.0 60.0 80.0	0.0 0.0 5.0 20.0 20.0 30.0 40.0 40.0	2 2 2 3 4 5	0.0 5.0 0.0 5.0 5.0 0.0 0.0 0.0	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0	0.0 2.0 15.0 30.0 40.0 40.0 60.0 70.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0	
-	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0	0.0 0.0 5.0 20.0 20.0 30.0 40.0 40.0 60.0	2 2 2 3 4 5 5	0.0 5.0 0.0 5.0 5.0 0.0 0.0 0.0 0.0	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0	0.0 2.0 15.0 30.0 40.0 40.0 60.0 70.0 80.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5 80.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0	
-	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0 50.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0 80.0	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0 70.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0 90.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0 90.0	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0 90.0	$\begin{array}{c} 0.0\\ 0.0\\ 5.0\\ 20.0\\ 30.0\\ 40.0\\ 40.0\\ 60.0\\ 60.0\\ \end{array}$	2 2 2 3 4 4 5 5 7 7	0.0 5.0 0.0 5.0 5.0 0.0 0.0 0.0 0.0	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0 65.0	0.0 2.0 15.0 30.0 40.0 40.0 60.0 70.0 80.0 80.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5 80.0 90.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 90.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0 50.0 85.0 90.0 90.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0 80.0 80.0 80.0 80.0 8	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0 70.0 70.0 75.0 85.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0 90.0 95.0 95.0 95.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0 90.0 90.0	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0 90.0 90.0	0.0 0.0 5.0 20.0 30.0 40.0 60.0 60.0 70.0 100.0	2 2 2 3 4 4 5 5 7 7 7 8	0.0 5.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0 65.0 65.0 75.0 85.0 87.5	0.0 2.0 15.0 30.0 40.0 60.0 70.0 80.0 80.0 85.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5 80.0 90.0 90.0 95.0 95.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 90.0 95.0 100.0 100.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0 50.0 85.0 90.0 90.0 90.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0 80.0 80.0 80.0 80.0 8	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0 70.0 70.0 75.0 85.0 90.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0 90.0 95.0 95.0 95.0 95.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0 90.0 90.0 90.0 90.0 90.0	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0 90.0 90.0 95.0 95.0 95.0	0.0 0.0 5.0 20.0 30.0 40.0 60.0 60.0 70.0 100.0 100.0	2 2 3 4 4 5 5 7 7 7 7 8 8 8	0.0 5.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0 5.0 5	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0 65.0 65.0 75.0 85.0 87.5 90.0	0.0 2.0 15.0 30.0 40.0 60.0 70.0 80.0 80.0 85.0 90.0 90.0 90.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5 80.0 90.0 90.0 95.0 95.0 95.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 90.0 95.0 100.0 100.0 100.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0 50.0 85.0 90.0 90.0 90.0 90.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0 80.0 80.0 80.0 85.0 85.0 8	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0 70.0 70.0 70.0 75.0 85.0 90.0 90.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0 90.0 95.0 95.0 95.0 95.0 95.0 95.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0 90.0 90.0 90.0 90.0 90.0 90.0 90	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0 90.0 90.0 95.0 95.0 95.0 95.0	0.0 0.0 5.0 20.0 30.0 40.0 60.0 60.0 70.0 100.0 100.0 100.0 100.0	2 2 2 3 4 4 5 5 7 7 7 8 8 8 8 8	0.0 5.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0 5.0 5	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0 65.0 65.0 75.0 85.0 87.5 90.0 90.0	0.0 2.0 15.0 30.0 40.0 60.0 70.0 80.0 80.0 80.0 85.0 90.0 90.0 90.0 90.0	$\begin{array}{c} 2.0\\ 5.0\\ 17.5\\ 32.5\\ 42.5\\ 55.0\\ 65.0\\ 77.5\\ 80.0\\ 90.0\\ 90.0\\ 90.0\\ 95.0\\ 95.0\\ 95.0\\ 95.0\\ 95.0\\ \end{array}$	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 90.0 95.0 100.0 100.0 100.0 100.0	
	-0.5 0.0 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 1.0 1.5 1.5 2.0 1.0 1.5 2.0 1.0 1.5 2.0 1.0 1.5 2.0 1.0 1.5 2.0 1.0 1.5 2.0 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1 2.0 2.0 15.0 25.0 25.0 30.0 40.0 50.0 50.0 85.0 90.0 90.0 90.0	2 0.0 20.0 30.0 50.0 60.0 70.0 80.0 80.0 80.0 80.0 80.0 80.0 8	3.0 5.0 15.0 35.0 40.0 40.0 70.0 70.0 70.0 70.0 75.0 85.0 90.0	0.0 5.0 10.0 20.0 40.0 50.0 60.0 70.0 80.0 90.0 95.0 95.0 95.0 95.0	0.0 0.0 10.0 30.0 45.0 60.0 70.0 75.0 80.0 90.0 90.0 90.0 90.0 90.0	2.0 5.0 30.0 40.0 40.0 60.0 80.0 90.0 90.0 90.0 95.0 95.0 95.0	0.0 0.0 5.0 20.0 30.0 40.0 60.0 60.0 70.0 100.0 100.0	2 2 2 3 4 4 5 5 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8	0.0 5.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0 5.0 5	0.0 0.0 10.0 20.0 30.0 35.0 40.0 55.0 65.0 65.0 65.0 75.0 85.0 87.5 90.0	0.0 2.0 15.0 30.0 40.0 60.0 70.0 80.0 80.0 85.0 90.0 90.0 90.0	2.0 5.0 17.5 32.5 42.5 55.0 65.0 77.5 80.0 90.0 90.0 95.0 95.0 95.0	3.0 5.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 90.0 95.0 100.0 100.0 100.0	





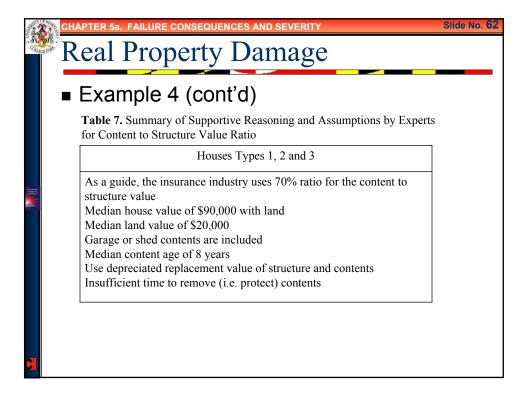
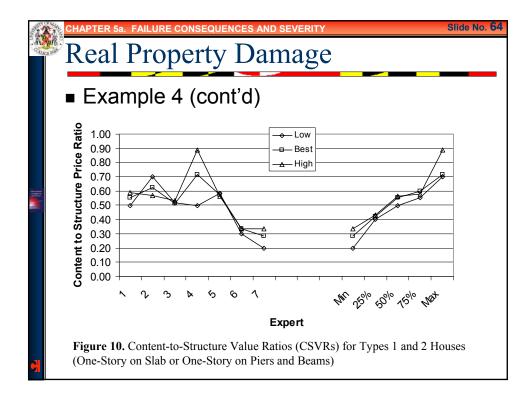


Table 9 Va	1	fDa	idam		140000	tura	Contont	a and Thai	D.	tion	(00)	SVD)						
		ue of Residential Structures, Contents and Their Ratios (CSVR)																
for Types 1	and 2 Houses (One-Story on Slab or One-Story on Piers and Bean								ns									
		Initial F	stimate:	% Dam	age hy	Exnert			Aggregated Opinions									
Issue	1	2	3	4	5 s	6	7	Min		25%	50%	75% 1	/lax					
Median Structure (K\$)																	
Low	70.0	70.0	65.0	50.0	60.0	50.0	40.0	4	0.0	50.0	60.0	67.5	70.0					
Best	90.0	110.0	106.0	70.0	70.0	60.0	70.0	6	0.0	70.0	70.0	98.0	110.0					
High	110.0	250.0	175.0	90.0	80.0	80.0	90.0		0.0	85.0	90.0	142.5	250.0					
Median Content (K\$)																		
Low	35.0	49.0	35.0	25.0	35.0	15.0	10.0	1	0.0	20.0	35.0	35.0	49.0					
Best	50.0	77.0	41.0	50.0	40.0	20.0	20.0	2	0.0	30.0	41.0	50.0	77.0					
High	65.0	175.0	70.0	80.0	45.0	25.0	25.0	2	5.0	35.0	65.0	75.0	175.0					
CSVR																		
Low	0.50	0.70	0.54	0.50	0.58	0.30	0.25	0	.25	0.40	0.58	0.52	0.70					
Best	0.56	0.70	0.39	0.71	0.57	0.33	0.29	0	.33	0.43	0.59	0.51	0.70					
High	0.59	0.70	0.40	0.89	0.56	0.31	0.28	0	.31	0.41	0.72	0.53	0.70					
				0/ D														
		Revised 2	Estimate 3	2: % Da	mage D 5	y Expei 6	τ 7	Min		gregated 25%	d Opinio 50%	ns 75% !						
Issue Median Structure (K\$	<u> </u>		3	4	2	0	1	Viin		25%	50%	/5% [lax					
Low	, 70.0	70.0	77.0	50.0	60.0	50.0	50.0		0.0	50.0	60.0	70.0	77.0					
Best	90.0	80.0	82.0	70.0	70.0	60.0	70.0		0.0	70.0	70.0	81.0	90.0					
High	110.0	80.0 90.0	82.0 94.0	90.0	80.0	75.0	90.0	-	0.0 5.0	85.0	90.0	92.0	90.0 110.0					
Median Content (K\$)	110.0	90.0	94.0	90.0	80.0	75.0	90.0	· · ·	5.0	85.0	90.0	92.0	110.0					
Low	35.0	49.0	40.0	25.0	35.0	15.0	10.0		0.0	20.0	35.0	37.5	49.0					
Best	50.0	50.0	40.0	50.0	40.0	20.0	20.0		0.0	30.0	42.0	50.0	50.0					
High	65.0	51.0	42.0 50.0	80.0	40.0	20.0	30.0		0.0 5.0	37.5	42.0 50.0	58.0	80.0					
CSVR	55.0	51.0	50.0	00.0	45.0	23.0	50.0	-	5.0	51.5	55.0	58.0	00.0					
Low	0.50	0.70	0.52	0.50	0.58	0.30	0.20	0	.20	0.40	0.50	0.55	0.70					
Best	0.56	0.63	0.52	0.50	0.58	0.30	0.20		.20	0.40	0.56	0.60	0.70					
High	0.50	0.03	0.51	0.89	0.56	0.33	0.33		.33	0.42	0.56	0.58	0.89					



and and	CHAPTER 5a. FAILURE CONSEQUENCES AND SEVERITY	Slide No. 65
- AL	Real Property Damage	
	Example 4 (cont'd)	
	Table 9. Summary of Supportive Reasoning and Assumptions by Expertsfor Vehicle Damage	
	Vehicles Types 1 and 2	
	Median vehicle age of 5 years	
	Percentages are of depreciated replacement value of	
	vehicles	
	Flood without flow velocity	
	Several days of flood duration	
	Flood water is not contaminated, but has sediment	
	without large debris	
	Allow for cleanup cost	
		J

	į							le (Sedans)	A	Aggregate	ed Opinio	ons	
	1	2	3	4	5	6	7		Min	25%	50%		Max
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
0.5	5.0	0.0	5.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	2.5	
1.0	20.0	0.0	30.0	10.0	25.0	5.0	10.0		0.0	7.5	10.0	22.5	
1.5	25.0	0.0	50.0	15.0	25.0	15.0	50.0		0.0	15.0	25.0	37.5	
2.0	35.0	30.0	80.0	20.0	30.0	20.0	60.0		20.0	25.0	30.0	47.5	
2.5	50.0	35.0	100.0	40.0	70.0	40.0	70.0		35.0	40.0	50.0	70.0	1
	60.0	40.0	100.0	50.0	70.0	60.0	90.0		40.0	55.0	60.0	80.0	1
													1
5.0	100.0	50.0	100.0	100.0	95.0	80.0	100.0		50.0	87.5	100.0	100.0	1
	1					• •	7		Min				Ma
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
0.5	10.0	0.0	5.0	0.0	0.0	2.0	0.0		0.0	0.0	0.0	3.5	
1.0	25.0	10.0	20.0	20.0	20.0	10.0	20.0		10.0	15.0	20.0	20.0	
1.5	35.0	30.0	50.0	25.0	25.0	40.0	30.0		25.0	27.5	30.0	37.5	
2.0	40.0	40.0	80.0	30.0	30.0	50.0	50.0		30.0	35.0	40.0	50.0	
2.5	50.0	50.0	100.0	40.0	60.0	60.0	70.0		40.0	50.0	60.0	65.0	1
3.0	60.0	100.0	100.0	50.0	70.0	80.0	80.0		50.0	65.0	80.0	90.0	1
4.0	100.0	100.0	100.0	100.0	100.0	80.0	100.0		80.0	100.0	100.0	100.0	1
5.0	100.0	100.0	100.0	100.0	100.0	80.0	100.0		80.0	100.0	100.0	100.0	1
	0.5 1.0 1.5 2.0 2.5 3.0 4.0 5.0 5.0 0.0 0.5 1.0 1.5 2.0 2.5 3.0 4.0 4.0 4.0	$\begin{array}{ccccc} & 1 \\ 0.0 & 0.0 \\ 0.5 & 5.0 \\ 1.0 & 20.0 \\ 1.5 & 25.0 \\ 2.0 & 35.0 \\ 2.5 & 50.0 \\ 3.0 & 60.0 \\ 3.0 & 60.0 \\ 4.0 & 100.0 \\ 5.0 & 100.0 \\ \hline \\ $	1 2 0.0 0.0 0.0 0.5 5.0 0.0 1.0 20.0 0.0 1.5 25.0 0.0 2.0 35.0 30.0 2.5 50.0 35.0 3.0 60.0 40.0 4.0 100.0 50.0 5.0 100.0 50.0 5.0 100.0 0.0 1.5 25.0 10.0 1.5 25.0 10.0 1.5 35.0 30.0 2.5 50.0 50.0 3.0 60.0 40.0 2.5 50.0 50.0 1.0 25.5 10.0 1.5 35.0 30.0 2.5 50.0 50.0 3.0 60.0 100.0 3.0 60.0 100.0	1 2 3 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 1.0 20.0 0.0 30.0 1.5 25.0 0.0 50.0 2.0 35.0 30.0 80.0 2.5 50.0 35.0 100.0 3.0 60.0 40.0 100.0 4.0 100.0 40.0 100.0 5.0 100.0 50.0 100.0 5.0 100.0 50.0 100.0 1.0 25.0 10.0 50.0 1.0 25.0 10.0 20.0 1.5 35.0 30.0 50.0 1.0 25.0 10.0 80.0 2.5 50.0 50.0 100.0 2.5 50.0 50.0 100.0 2.5 50.0 50.0 100.0 2.5 50.0 50.0 100.0 3.0 60.0	1 2 3 4 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 1.0 20.0 0.0 30.0 10.0 1.5 25.0 0.0 50.0 15.0 2.0 35.0 30.0 80.0 20.0 2.5 50.0 35.0 100.0 40.0 3.0 60.0 40.0 100.0 100.0 3.0 60.0 40.0 100.0 100.0 5.0 100.0 40.0 100.0 100.0 5.0 100.0 50.0 100.0 100.0 5.0 100.0 50.0 100.0 100.0 0.5 10.0 0.0 0.0 1.0 1.0 25.0 10.0 20.0 20.0 1.0 25.0 10.0 20.0 20.0 1.0 25.0 10.0 20.0 20.0 1.0 <td>1 2 3 4 5 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 1.5 25.0 0.0 50.0 15.0 25.0 2.0 35.0 30.0 80.0 20.0 30.0 2.5 50.0 35.0 100.0 40.0 70.0 3.0 60.0 40.0 100.0 50.0 70.0 4.0 100.0 40.0 100.0 80.0 50.0 5.0 100.0 50.0 100.0 95.0 Revised Estimate: % Damage 1 2 3 4 5 0.0 0.0 0.0 0.0 0.0 0.0 1.0 25.0 10.0 20.0 20.0 1.0 1.0 25.0 10.0 20.0 20.0<</td> <td>1 2 3 4 5 6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 5.0 2.0 35.0 30.0 80.0 20.0 30.0 20.0 2.5 50.0 35.0 100.0 40.0 70.0 40.0 3.0 60.0 40.0 100.0 100.0 80.0 80.0 5.0 100.0 100.0 100.0 80.0 80.0 5.0 100.0 5.0 100.0 95.0 80.0 5.0 10.0 2.0 1.0 2.0 1.0 5.0 10.0 2.0 2.0 1.0 2.0 1.0 25.0 10.0 20.0 2.0 <td< td=""><td>0.0 0.0<td>1 2 3 4 5 6 7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 5.0 10.0 1.5 25.0 0.0 50.0 15.0 25.0 15.0 50.0 2.0 35.0 30.0 80.0 20.0 30.0 20.0 60.0 2.5 50.0 35.0 100.0 40.0 70.0 40.0 70.0 3.0 60.0 40.0 100.0 50.0 70.0 60.0 90.0 4.0 100.0 40.0 100.0 80.0 100.0 90.0 5.0 100.0 50.0 100.0 95.0 80.0 100.0 5.0 100.0 0.0 0.0 0.0 0.0 0.0 10.0</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>1 2 3 4 5 6 7 Min 25% 0.0 1.5.0 2.0 3.5.0 10.0 10.0 15.0 20.0 25.0 15.0 50.0 10.0 15.0 20.0 25.0 15.0 30.0 40.0 10.0 40.0 10.0 40.0 10.0 40.0 80.0 10.0 40.0</td><td>1 2 3 4 5 6 7 Min 25% 50% 0.0 0</td><td>1 2 3 4 5 6 7 Min 25% 50% 75% N 0.0 2.5 1.5 2.5 0.0 15.0 25.0 15.0 20.0 25.0 30.0 47.5 2.5 3.0 4.0.0 70.0 60.0 90.0 40.0 50.0 70.0 60.0 90.0 40.0 50.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0</td></td></td<></td>	1 2 3 4 5 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 1.5 25.0 0.0 50.0 15.0 25.0 2.0 35.0 30.0 80.0 20.0 30.0 2.5 50.0 35.0 100.0 40.0 70.0 3.0 60.0 40.0 100.0 50.0 70.0 4.0 100.0 40.0 100.0 80.0 50.0 5.0 100.0 50.0 100.0 95.0 Revised Estimate: % Damage 1 2 3 4 5 0.0 0.0 0.0 0.0 0.0 0.0 1.0 25.0 10.0 20.0 20.0 1.0 1.0 25.0 10.0 20.0 20.0<	1 2 3 4 5 6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 5.0 2.0 35.0 30.0 80.0 20.0 30.0 20.0 2.5 50.0 35.0 100.0 40.0 70.0 40.0 3.0 60.0 40.0 100.0 100.0 80.0 80.0 5.0 100.0 100.0 100.0 80.0 80.0 5.0 100.0 5.0 100.0 95.0 80.0 5.0 10.0 2.0 1.0 2.0 1.0 5.0 10.0 2.0 2.0 1.0 2.0 1.0 25.0 10.0 20.0 2.0 <td< td=""><td>0.0 0.0<td>1 2 3 4 5 6 7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 5.0 10.0 1.5 25.0 0.0 50.0 15.0 25.0 15.0 50.0 2.0 35.0 30.0 80.0 20.0 30.0 20.0 60.0 2.5 50.0 35.0 100.0 40.0 70.0 40.0 70.0 3.0 60.0 40.0 100.0 50.0 70.0 60.0 90.0 4.0 100.0 40.0 100.0 80.0 100.0 90.0 5.0 100.0 50.0 100.0 95.0 80.0 100.0 5.0 100.0 0.0 0.0 0.0 0.0 0.0 10.0</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>1 2 3 4 5 6 7 Min 25% 0.0 1.5.0 2.0 3.5.0 10.0 10.0 15.0 20.0 25.0 15.0 50.0 10.0 15.0 20.0 25.0 15.0 30.0 40.0 10.0 40.0 10.0 40.0 10.0 40.0 80.0 10.0 40.0</td><td>1 2 3 4 5 6 7 Min 25% 50% 0.0 0</td><td>1 2 3 4 5 6 7 Min 25% 50% 75% N 0.0 2.5 1.5 2.5 0.0 15.0 25.0 15.0 20.0 25.0 30.0 47.5 2.5 3.0 4.0.0 70.0 60.0 90.0 40.0 50.0 70.0 60.0 90.0 40.0 50.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0</td></td></td<>	0.0 0.0 <td>1 2 3 4 5 6 7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 5.0 0.0 5.0 0.0 0.0 0.0 0.0 1.0 20.0 0.0 30.0 10.0 25.0 5.0 10.0 1.5 25.0 0.0 50.0 15.0 25.0 15.0 50.0 2.0 35.0 30.0 80.0 20.0 30.0 20.0 60.0 2.5 50.0 35.0 100.0 40.0 70.0 40.0 70.0 3.0 60.0 40.0 100.0 50.0 70.0 60.0 90.0 4.0 100.0 40.0 100.0 80.0 100.0 90.0 5.0 100.0 50.0 100.0 95.0 80.0 100.0 5.0 100.0 0.0 0.0 0.0 0.0 0.0 10.0</td> <td>$\begin{array}{c 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CHAPTER 5a. FAILURE CONSEQUENCES AND SEVERITY

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