

Incident Causes – GPT Report

- Historical data from 1995 – 2010
- Causes of incidents broken down by:
 - “VTS Vessel type” (VTS vs. Other)
 - Vessel group within VTS type – bulker, tug, tanker, etc.
 - Geographic subarea
 - Vessel activity (underway, maneuvering, docking, anchored)



Cause Type Detail	Number of Incidents All Vessels	Number of Incidents VTS Vessels	VTS Cause Type	Number of Incidents for VTS Vessels
Allision	23	18	Allision	18
Bunker Error	91	36	Transfer Error	36
Collision	13	7	Collision	7
Discharging	278	37	Other, Non-Impact	37
Equipment Failure	73	45	Other, Non-Impact	45
Fire/Explosion	20	11	Other, Non-Impact	11
Grounding	42	15	Grounding	15
Operator Error	27	7	Other, Non-Impact	7
Other	34	10	Other, Non-Impact	10
Structural Failure	176	132	Other, Non-Impact	132
Transfer Error	47	40	Transfer Error	40
Unknown	292	71	Other, Non-Impact	71
Total	1,116	429	Total	429



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Cause	Bulk	General Cargo	Tanker	Tug and Tank Barge	Other	Total	Avg. Per Year	Return Years
Allision	1	1	2	1	13	18	1.13	0.88
Collision	1	0	1	4	1	7	0.44	2.27
Grounding	0	0	2	0	13	15	0.94	1.06
Other, Non-Impact	11	46	58	19	179	313	19.56	0.05
Transfer Error	2	3	27	12	32	76	4.75	0.21
Total	15	50	90	36	238	429	26.81	0.04



Year	Annual Number of Incidents by Cause and Subarea							
	Juan De Fuca West	Juan De Fuca East	Guemes	Saddlebag	Haro Strait Boundary Pass	Rosario Strait	Cherry Point	Total
Allision	0.00	0.25	0.38	0.25	0.00	0.13	0.13	1.13
Collision	0.13	0.13	0.06	0.00	0.00	0.00	0.13	0.44
Grounding	0.50	0.13	0.19	0.06	0.00	0.00	0.06	0.94
Other	2.63	5.44	4.69	2.81	0.25	0.56	3.19	19.56
Transfer	0.06	0.50	1.44	1.06	0.00	0.00	1.69	4.75
Total	3.31	6.44	6.75	4.19	0.25	0.69	5.19	26.81



Activity	Bulk	General Cargo	Tanker	Tug and Tank Barge	Other	Total	Avg. Per Year	Return Years
Anchored	1	3	6	2	5	17	1.06	0.94
Docked	6	8	44	23	98	179	11.19	0.09
Underway	8	33	31	7	110	189	11.81	0.08
Maneuvering	0	6	9	4	25	44	2.75	0.36
Total	15	50	90	36	238	429	26.81	0.04

