

- 1 Q. 2013 Wood Pole Line Management (WPLM), Appendix B. At page B6, Hydro
2 presents outage data for Hydro's Transmission Line Network as a whole (Figure 2a).
3 Provide a breakdown of the outage hours for the years 1993 – 2011, identifying
4
5 (a) the total outage hours for each year,
6 (b) the transmission lines (identified by number and by geographical location) in
7 each year where pole damage or pole failure was the cause of outage hours,
8 and
9 (c) for each of the transmission lines identified in response to (b) above, the
10 number of outage hours in each year caused by pole damage or pole failure
11 on that line.
12
13
14 A. Please refer to the attached table.

Wood Pole Transmission Line Outage Durations - All causes compared to structure failures

Transmission Line Number	Geographical Location	1993		1994		1995		1996		1997		1998		1999	
		All Causes	Structure Failures	All Causes	Structure Failures	All Causes	Structure Failures	All Causes	Structure Failures	All Causes	Structure Failures	All Causes	Structure Failures	All Causes	Structure Failures
TL201	Avalon Peninsula	0.13	0.00	330.73	330.73	0.33	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	9.58
TL203	Avalon Peninsula	0.03	0.00	13.63	0.00	0.00	0.00	0.00	0.00	0.03	0.00	37.30	36.97	0.00	0.00
TL209	West Coast	0.05	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL210	Central	0.00	0.00	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
TL215	South West Coast	0.03	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL219	Burin Peninsula	0.07	0.00	0.57	0.00	0.15	0.00	0.00	0.00	0.02	0.00	0.52	0.00	0.12	0.00
TL220	Connaigre														
TL220	Penninsula	0.00	0.00	0.00	0.00	90.08	89.85	21.92	21.88	0.00	0.00	61.18	61.15	1.82	0.00
TL221	Great Northern														
TL221	Penninsula	6.93	0.00	0.00	0.00	2.10	0.00	0.02	0.00	1.55	0.00	0.00	0.00	2.58	0.00
TL222	Central	15.43	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.02	0.00	0.02	0.00
TL223	Central	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
TL224	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.00	0.00
TL225	West Coast	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL226	Great Northern Peninsula	46.25	0.00	0.03	0.00	0.00	0.00	0.43	0.00	7.67	0.00	0.03	0.00	1.47	0.00
TL227	Great Northern Peninsula	5.72	0.00	12.22	0.00	130.70	118.00	16.05	0.00	0.03	0.00	0.00	0.00	8.75	0.00
TL229	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL232	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL234	South Coast	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	8.28	0.00	26.07	0.00
TL236	Avalon Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.52	0.00	0.00	0.00
TL236	Great Northern Peninsula														
TL239	Penninsula	8.92	0.00	21.13	21.13	0.00	0.00	18.12	0.00	0.00	0.00	2.22	0.00	0.00	0.00
TL239	Great Northern Peninsula														
TL241	Penninsula	0.00	0.00	0.00	0.00	0.22	0.00	0.30	0.00	0.07	0.00	0.02	0.00	0.05	0.00
TL242	Avalon Peninsula	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL243	West Coast	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
TL243	Great Northern Peninsula														
TL244	Penninsula	0.33	0.00	0.00	0.00	4.68	0.00	0.77	0.00	3.75	0.00	0.03	0.00	0.03	0.00
TL245	West Coast	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL250	South West Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
TL251	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL253	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL253	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL255	South West Coast														
TL255	Great Northern Peninsula														
TL256	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
TL256	Great Northern Peninsula														
TL257	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL259	Great Northern Peninsula	5.93	0.00	0.00	0.00	201.95	0.00	3.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL259	Bale Verte														
TL260	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL260	Great Northern Peninsula														
TL261	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00	0.00
TL261	Great Northern Peninsula														
TL262	Penninsula	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	16.03	15.53	0.00	0.00	7.30	0.00
TL263	South Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL264	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		89.83	0.00	395.23	351.86	430.62	207.85	61.42	21.88	32.10	15.53	173.43	98.12	62.88	26.00

Transmission Line Number	Geographical Location	Outage Duration (Hours)											
		2000			2001			2002			2003		
		All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes
TL201	Avalon Peninsula	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.00	0.15	0.00	0.00	0.00
TL203	Avalon Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00
TL209	West Coast	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL210	Central	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
TL215	South West Coast	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
TL219	Burn Peninsula	0.02	0.00	0.00	0.03	0.00	19.65	19.65	0.00	0.00	0.03	0.00	0.00
TL220	Connaigre Peninsula	3.82	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL221	Great Northern Peninsula	0.00	0.00	0.00	5.83	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.00
TL222	Central	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
TL223	Central	6.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL224	Central	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL225	West Coast	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
TL226	Great Northern Peninsula	4.07	0.00	0.00	0.00	0.00	0.10	0.00	2.93	0.00	0.03	0.00	0.00
TL227	Great Northern Peninsula	2.12	0.57	0.00	0.00	0.00	0.23	0.00	1.23	0.00	0.00	0.00	0.00
TL229	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL232	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63	0.00	0.00	0.00	0.00
TL234	South Coast	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
TL236	Avalon Peninsula	5.92	0.00	0.00	0.00	0.00	7.03	0.00	0.00	0.00	0.00	0.00	0.00
TL239	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.75	36.87	0.00
TL241	Great Northern Peninsula	0.27	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
TL242	Avalon Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL243	West Coast	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
TL244	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.85	0.00	0.00	0.00	0.00
TL245	West Coast	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.03	0.00	0.00	0.00	0.00
TL250	South West Coast	1.20	0.00	0.00	0.05	0.00	0.00	0.00	22.38	0.00	0.00	0.00	0.00
TL251	White Bay	0.02	0.00	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00
TL253	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL255	South West Coast	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL256	Great Northern Peninsula	2.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL257	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
TL259	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	7.48	7.48	0.03	0.00	0.00	8.75	0.00
TL260	Baie Verte Peninsula	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL261	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL262	Great Northern Peninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL263	South Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
TL264	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		31.30	0.57	42.32	5.98	0.00	42.32	19.65	44.37	22.38	88.77	26.75	74.83
												45.62	34.58
												0.00	71.60
												0.00	0.00

Transmission Line Number	Geographical Location	2008			2009			2010			2011			Total		
		All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes	All Causes	Structure Failures	All Causes
TL201	Avalon	0.05	0.00	0.00	0.00	0.00	0.00	14.85	0.00	0.13	0.00	0.00	0.00	371.27	330.73	0.00
TL203	Penninsula	0.00	0.00	13.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109.17	36.97	0.00
TL209	Avalon Penninsula	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00
TL210	West Coast	15.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	33.37	0.00	0.00
TL215	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	14.38	0.00	0.00
TL219	South West Coast	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	0.00	0.00	0.00	23.42	19.65	0.00
TL219	Burin Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL220	Connalgre	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.75	172.88	0.00
TL221	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.37	0.00	0.00
TL222	Great Northern	0.78	0.00	7.07	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	20.57	0.00	0.00
TL223	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.17	0.00	0.00
TL224	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
TL225	West Coast	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	2.48	0.00	0.00
TL226	Great Northern	0.18	0.00	0.00	0.00	0.00	0.00	0.10	0.00	139.18	0.00	0.00	0.00	203.43	0.00	0.00
TL227	Penninsula	0.23	0.00	0.32	0.00	0.00	0.00	0.00	0.00	285.67	12.00	0.00	0.00	487.82	130.57	0.00
TL229	Great Northern	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.05	0.00	0.00	0.00	25.88	0.00	0.00
TL232	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	0.00	0.00
TL234	Central	0.03	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.23	26.00	0.00
TL236	South Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.47	0.00	0.00
TL239	Avalon Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL241	Great Northern	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	26.17	0.00	0.00	0.00	140.20	84.75	0.00
TL242	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	2.03	0.00	0.00	0.00	3.60	0.00	0.00
TL243	Avalon Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
TL244	West Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00
TL245	Great Northern	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.57	0.00	0.00
TL250	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
TL251	West Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.00	23.82	22.38	0.00
TL253	South West Coast	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.88	0.00	0.00
TL255	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.63	0.00	0.00
TL256	White Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
TL257	South West Coast	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	5.32	0.00	0.00
TL259	Great Northern	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	15.37	0.00	0.00
TL260	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	227.67	8.75	0.00
TL261	Great Northern	0.00	0.00	0.00	0.00	0.00	0.00	13.08	0.00	8.50	0.00	0.00	0.00	22.93	8.50	0.00
TL262	Baie Verte	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	15.95	0.00	0.00
TL263	Penninsula	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.32	15.53	0.00
TL264	Great Northern	11.35	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.62	0.00	0.00
TL264	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.83	0.00	0.00
Total		37.60	0.00	22.88	0.00	0.00	0.00	28.47	0.00	471.43	20.50	0.00	0.00	2199.65	864.19	0.00