Q. (Reference Application, 2025 – 2029 Capital Plan, pages 9 to 11) Please provide a table showing the number of transmission system wooden support structures and overhead conductor failures that have occurred in each year since 2020. Further, please provide a table showing the number of transmission system wooden support structures and overhead conductors that have been replaced in each year since 2000.

A. Table 1 shows the number of TD1 and TD2 work orders that have been completed each year on damaged conductor since 2020.[1,2]

Table 1:
Completed Work Orders on Damaged Conductor by Year

Year	# of Completed Work Orders
2020	0
2021	3
2022	3
2023	0
2024[3]	1

Table 2 shows the number of TD1 and TD2 work orders that have been completed each year on damaged transmission line structures since 2020.

Table 2:
Completed Work Orders on Damaged Poles by Year

Year	# of Completed Work Orders
2020	13
2021	1
2022	11
2023	10
2024[4]	5

1 TD1 deficiencies are identified as either a serious hazard or a deficiency that would result in an interruption if not corrected in seven days.
2 TD2 deficiencies are identified as less serious hazards or a deficiency that would result in an interruption if not corrected in one month.
3 As of August 30, 2024.
4 As of August 30, 2024.

Newfoundland Power does not have data to identify direct replacements of conductor or structures. Addressing a deteriorated structure does not necessarily mean a one for one replacement. For example, addressing a deteriorated structure could result in a relocation, or the addition of mid span structures due to clearance concerns. Newfoundland Power does have data on overall pole and conductor installs and removals.

Table 3 shows transmission pole installations and removals from 2000 to 2023.

Table 3:
Transmission Pole Installations and Removals by Year

Year	Installed	Removed
2000	150	155
2001	430	479
2002	119	559
2003	273	947
2004	266	490
2005	320	439
2006	899	545
2007	458	443
2008	544	726
2009	583	236
2010	544	464
2011	585	691
2012	428	334
2013	518	86
2014	374	531
2015	402	346
2016	380	294
2017	442	928
2018	625	457
2019	794	768
2020	501	462
2021	763	493
2022	434	134
2023	849	924
Total	11,681	11,931

Table 4 shows transmission conductor installations and removals from 2000 to 2023.

Table 4:
Transmission Conductor Installations and Removals by Year (kg)

Year	Installed	Removed
2000	2,505	8,183
2001	23,356	15,970
2002	6,388	39,462
2003	26,547	141,907
2004	29,662	17,108
2005	44,892	41,963
2006	78,295	20,945
2007	69,566	66,323
2008	70,337	60,353
2009	54,373	8,678
2010	64,897	35,337
2011	55,514	169,894
2012	47,234	17,591
2013	41,598	15,558
2014	36,071	30,750
2015	45,663	26,023
2016	51,673	27,706
2017	61,943	21,803
2018	75,945	17,771
2019	118,588	112,706
2020	46,555	39,157
2021	101,442	65,211
2022	51,387	0
2023	89,279	148,284
Total	1,293,711	1,148,723