



2022 3rd Quarter Maintenance of Way Division

**Track, Structures, Stations and Facilities
Metro-North Railroad**

September 30, 2022



Track Projects Systemwide

▣ Production Tie Replacement – 1,758,250 systemwide wood ties (44,850 ties planned)

▫	Hudson Line	15,210	ties planned	10,552	installed	69%	
▫	New Haven	10,000	ties planned	11,822	installed	118%	
▫	Port Jervis	10,000	ties planned	5,681	installed	57%	
		35,210	ties planned	28,055	installed	80%	of goal
▫	Harlem (SmarTrack)	3,400	ties planned	0	installed	0%	
▫	Hudson (SmarTrack)	5,200	ties planned	0	installed	0%	
▫	New Haven (SmarTrack)	1,040	ties planned	361	installed	35%	
		9,640	ties planned	361	installed	4%	of goal
	Total 2022	44,850	ties planned	28,416	installed	63%	of goal

* All subject to change due to current events



▣ **Rail Vac (Wood Ties) – 4,000 ties planned**

▫	GCT	40	ties installed	
▫	Hudson	1,412	ties installed	
▫	Harlem	402	ties installed	
▫	New Haven	1,165	ties installed	
	Total 2022	3,019	ties installed	75% of goal

▣ **Rail Replacement – 1,508 rail miles systemwide (12.5 miles planned)**

▫	Hudson Line	0.5	miles planned	1	installed	214%	complete
▫	Harlem	6	miles not planned	3	installed	46%	complete
▫	New Haven	6	miles planned	8	installed	136%	complete
	Total 2022	12.5	miles planned	12	installed	96%	of goal

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▣ **Welds (1,500 joints planned)**

▫	GCT	23	joints completed		
▫	Hudson Line	303	joints completed		
▫	Harlem Line	209	joints completed		
▫	New Haven	394	joints completed		
▫	West Of Hudson	38	joints completed		
	Total 2022	967	joints completed	64%	of goal

▣ **Switch Renewal - 1,500 Switches systemwide (33 switches planned)**

▫	GCT	4	switches planned	4	switches completed	100%	complete
▫	Hudson	5	switches planned	2	switches completed	40%	complete
▫	Harlem	3	switches planned	3	switches completed	100%	complete
▫	New Haven	17	switches planned	8	switches completed	47%	complete
▫	Port Jervis	3	switches planned	0	switches completed	0%	complete
	Total 2022	32	switches planned	17	switches completed	53%	of goal

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▣ **Grade Crossing Renewal – 111 Grade Crossings systemwide (6 crossings planned)**

α	Harlem Line	3	crossings planned	1	complete	33%
α	West of Hudson	3	crossings planned	3	complete	100%
	Total 2022	6	crossings planned	4	complete	67% of goal

▣ **Surfacing - 754 track miles systemwide (100 miles planned)**

α	Hudson Line	23	miles planned	30	completed	
α	Harlem Line	18	miles planned	3	completed	
α	New Haven	45	miles planned	33	completed	
α	Port Jervis	14	miles planned	5	completed	
	Total 2021	100	miles planned	71	completed	71% of goal

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- ❑ **Ultrasonic Rail Testing (1,480 miles planned, 2 runs per year per FRA)**
 - ❑ 976 miles continuous testing completed
 - ❑ Total defects found from testing: 45

- ❑ **Geometry (2 runs per year)**
 - ❑ FRA March 2022 (complete)
 - ❑ ENSCO - TGIS (100% complete) Only one run performed 2022
 - ❑ 1st run – MOWIC (100% complete)
 - ❑ 2nd run – MOWIC (98% complete)

- ❑ **GCT Terminal Track Rehabilitation (44 Platforms systemwide, 3 Platforms Planned)**
 - ❑ Track 21
 - ❑ 115 bracket ties, 500 block ties (100% complete)
 - ❑ Bumping Post Installation
 - ❑ Track 17 (10% complete)
 - ❑ Track 18 (90% complete)
 - ❑ Track 103
 - ❑ 100 Block ties (20% complete)

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■ **Overhead Bridge Program (NY) Bridge Flag Repairs (Harlem, Hudson New Haven-NY/Port Jervis Line)**

- Typical repairs include replacing deteriorated members, rebuilding deteriorated bridge seats, repairing abutment walls, repairing load bearing supports, timber deck replacements.
 - HUD 5.19 East 144th Street - Steel Repairs (100% complete)
 - HUD 12.94 West 254th Street – Bearing Repairs (10% complete)
 - HUD 14.43 Ludlow Street – Pier Repairs (20% complete)
 - HUD 29.40 Station Road – Pier Repairs (10% complete)
 - HUD 38.90 Montrose Station Road – Flag Repairs (35% complete)
 - NH 20.73 Hillside Ave – Flag Repairs (35% complete)
 - NH 20.89 North Barry – Steel Repairs (50% complete)



▣ **Undergrade Bridge Timbers (NY only – 586 Timbers Planned)**

✘	HUD 64.79 Wappingers Creek Trk 1	170 timbers	30% complete
✘	HUD 64.79 Wappingers Creek Trk 2	170 timbers	100% complete
✘	PJ – JS 32.06 Ramapo River Trk 2	106 timbers	100% complete
✘	PJ – JS 39.55 Stream Trk 1	21 timbers	100% complete
✘	PJ – JS 41.14 Stream Trk 1	28 timbers	100% complete
✘	PJ – JS 55.03 Moodna Viaduct Trk 1	60 timbers	0% complete
✘	PJ – SR 73.79 Route 211Trk S	31 timbers	0% complete
	Total 2022	586 Timbers	64% complete

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■ NY Undergrade Bridge Repair Program

■ Hudson

- Grand Central Terminal (MP 1.0) – Track 17 Flag Repairs (10% complete)
- Park Ave Tunnel (MP 2.0) – Track C Flag Repairs (100% complete)
- Park Avenue Tunnel Leak Remediation – Tracks 1, 2, 3 & 4 (80% complete)
- Park Ave Viaduct (MP 3.01) – Masonry Arch Repairs (90% complete)
- Park Ave Viaduct (MP 3.42) E111 to E112th Street – Steel Repairs (50% complete)
- Park Ave Viaduct (MP 3.8 – MP 4.49) – Phase 1, 25 No. Flag Repairs (75% complete)
- Wappinger Falls (MP 64.79) – Flag Repairs (85% complete)

■ Port Jervis

- Ramapo River (MP 32.06 JS) – Flag Repairs (65% complete)
- Laura Lane (MP 47.73) – Replacement (40% complete)
- Woodbury Creek (MP 50.17) – Phase 1, Column Flag Repairs (75% complete)
- Shea Road (MP 63.04) – Concrete Repairs (100% complete)
- Beacon (MP 30.02) – Bridge Removal (10% Complete)



CT Bridge Projects

▣ Bridge Timbers (CT only – 393 Timbers Planned)

⌘	NH 33.41 Canal Street, Trk 2	52	timbers	100%	complete
⌘	NH 33.75 Elm St. Trk 4	53	timbers	100%	complete
⌘	NH 40.89 Franklin (Spring Street) Trk 1	43	timbers	10%	complete
⌘	NH 53.84 Howard Avenue Trk 2	53	timbers	0%	complete
⌘	NH 56.20 East Main Street Trk 3	56	timbers	0%	complete
⌘	NH 57.46 Bishop Ave Trk 3	48	timbers	10%	complete
⌘	NH 57.62 Bruce Ave, Trk 1	29	timbers	100%	complete
⌘	NH 59.96 East Main Street Trk 3	39	timbers	100%	complete
⌘	NH 64.59 Gulf Street, Trk 4	20	timbers	100%	complete
	Total 2022	393	Timbers Planned	52%	complete

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- **S-Program (CTDOT Bridge Program) –Deferred to 2023**
 - Steamboat Road (NH 28.22) – Steel / Masonry Repairs (0% complete)
 - Sound Shore Drive (NH 29.68) – Steel / Masonry Repairs (0% complete)
 - Mill Plain Road (NH 50.29) – Steel / Masonry Repairs (0% complete)
 - Fairfield Creek (NH 51.68) – Masonry Repairs (0% complete)
 - Union Street (NH 55.40) – Steel / Masonry Repairs (0% complete)

*** Due to lack of funding**

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- ▣ **Cos Cob Bridge NH 29.90 (Greenwich, CT)**

- ▣ Steel repairs, Phase 1 (75% complete)

- ▣ **Saga NH 44.32 (Westport, CT)**

- ▣ Fabricated/install steel ties, install expansion and thick web miter rails on Track 1 (100% complete)
- ▣ Fabricated/install steel ties, install expansion and thick web miter rails on Track 3 (60% complete)

- ▣ **Right of Way Fence**

- ▣ Install/repair 500' ft of fence throughout systemwide (75% complete)
- ▣ CP 271 to CP 272 Security Fencing – Tracks 4, 5 (70% complete)

- ▣ **Graffiti Removal Program**

- ▣ Hudson & Harlem - cleaned graffiti off various buildings, bridges, retaining walls & rock cuts (75% complete)

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▣ Right of Way Improvements

- ▣ Mount Vernon West Yard Cleanup & Grading (100% complete)
- ▣ Harmon Yard Track Compound Paving (0% complete)
- ▣ North White Plains Work Equipment Area (60% complete)
- ▣ CP 235 Staircase for CIL Access (100% complete)
- ▣ Hudson / Harlem Line Transmission Pole Repairs – 15 No. (35% complete)
- ▣ Remove Catenary Poles on Danbury Line (90% complete)

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