FY25 Propane Tank Size & Use Locations

Mapping Reflects park input received on 03/26/2025.

Location Number	Location Description	Propane Tank Size	Propane Tank Quanity	Propane Tank Owned By	Leased Tanks	District	Site	Area	Asset Type	Facility Type (Modified)
104386	PRKG Area (Cougar Rock Ranger Station) RT 941A	120	1	MORA NPS		West	Nisqually to Narada Falls	Cougar Rock	Parking Area	Roads - Paved Parking Area
19479	BLDG L167 Kautz Creek (Storage Shed)	500	2	Vendor	2	West	Nisqually to Narada Falls	Kautz Creek	Building	Building - Warehouses
19409	BLDG L101 Longmire (Macy Dorm)	1000	1	MORA NPS		West	Nisqually to Narada Falls	Longmire	Building	Building - Office
19484	BLDG L203 Longmire (Radio Shop / Electric Shop)			Vendor		West	Nisqually to Narada Falls	Longmire	Building	Building - Service
19492	BLDG L212 Longmire (Townsley Hall)			MORA NPS		West	Nisqually to Narada Falls	Longmire	Building	Building - Office
19417	BLDG L108 Longmire (Housing)	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19418	QTRS L109 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19420	BLDG L110 Longmire (Laundry and Exercise Facility)	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Warehouses
19438	QTRS L114 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19439	QTRS L115 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19440	QTRS L116 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19422	QTRS L111 Longmire	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19423	BLDG L112 Longmire (Employee Lounge/Auxiliary Office)					West	Nisqually to Narada Falls	Longmire	Building	Building - Office
19425	QTRS L113 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19489	BLDG L209 Longmire (Auto Shop)	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Service
19499	BLDG L215 Longmire (6 Stall Garage / Roads Shop)	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Service
52591	BLDG L216 Longmire (EOC) Emergency Operations Center	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Office
19506	BLDG L305 Longmire (Comfort Station) Campground 3rd	500	1	MORA NPS		West	Nisqually to Narada Falls	Longmire	Building	Building - Comfort Station
19528	BLDG L676 Longmire (WWTP) Tanks & Pump Room Building	500		Vendor		West	Nisqually to Narada Falls	Longmire	Building	Building - Industrial/Utility Build
19530	BLDG L678 Longmire (WTP) Lab @ the Bridge	500	4	MORA NPS		West	Nisqually to Narada Falls	Longmire	Building	Building - Industrial/Utility Build
19441	QTRS L117 Longmire	1000	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19442	QTRS L118 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19443	QTRS L119 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19460	QTRS L136 Longmire (Duplex)					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19444	QTRS L120 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19445	QTRS L121 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19446	QTRS L122 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19447	QTRS L123 Longmire (The Bent House)	250	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19448	QTRS L124 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19449	QTRS L125 Longmire	120	1	MORA NPS		West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19451	QTRS L127 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing

19452	QTRS L128 Longmire					West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19453	QTRS L129 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19455	QTRS L130 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19456	QTRS L131 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19457	QTRS L132 Longmire	500	1	Vendor	1	West	Nisqually to Narada Falls	Longmire	Building	Building - Housing
19531	BLDG N001 Nisqually (Entrance Office)	1000	1	Vendor	1	West	Nisqually to Narada Falls	Nisqually	Building	Building - Office
19653	BLDG N103 Nisqually (Oscar Brown House)			Vendor		West	Nisqually to Narada Falls	Nisqually	Building	Building - Lodging/VC/Other Ins
19673	BLDG N201 Nisqually (Equipment Building)			Vendor		West	Nisqually to Narada Falls	Nisqually	Building	Building - Warehouses
19536	BLDG N101 Nisqually (Superintendent House)	500	1	Vendor	1	West	Nisqually to Narada Falls	Nisqually	Building	Building - Lodging/VC/Other Ins
19537	QTRS N102 Nisqually (Rangers Residence)	120	2	Vendor	2	West	Nisqually to Narada Falls	Nisqually	Building	Building - Housing
19681	BLDG N303 Nisqually (WTP)	250		MORA NPS		West	Nisqually to Narada Falls	Nisqually	Building	Building - Industrial/Utility Build
245981	BLDG C226 Carbon River (Marsh) Garage	250	1	MORA NPS		West	Carbon River	Marsh	Building	Building - All Other
19685	BLDG O005 Ohana (Visitor Center)	1000	1	MORA NPS		East	Ohanapecosh	Ohana	Building	Building - Lodging/VC/Other Ins
19759	BLDG O208 Ohana (Maintenance / Ranger Building)	1000	1	MORA NPS		East	Ohanapecosh	Ohana	Building	Building - Warehouses
19767	BLDG O216 Ohana (WTP) No Name Creek	500	1	Vendor	1	East	Ohanapecosh	Ohana	Building	Building - Industrial/Utility Build
19711	QTRS O107 Ohana (Residence)	500	1	Vendor	1	East	Ohanapecosh	Ohana	Building	Building - Housing
19713	QTRS O115 Ohana (Apartment North)	1000	2	Vendor	2	East	Ohanapecosh	Ohana	Building	Building - Housing
19716	QTRS O116 Ohana (Apartment South)	1000	2	Vendor	2	East	Ohanapecosh	Ohana	Building	Building - Housing
19718	QTRS O130 Ohana (Residence) Duplex	500	2	Vendor	2	East	Ohanapecosh	Ohana	Building	Building - Housing
21055	WAWA WWTP (Ohana)	120	1	MORA NPS		East	Ohanapecosh	Ohana	Waste Water System	Water System - Sanitary Sewer
228420	BLDG P605 Paradise (Generator Building)	1000	1	MORA NPS		West	Paradise	Paradise	Building	Building - Industrial/Utility Build
19690	BLDG O050 Stevens Canyon (Entrance Station)	250	1	Vendor	1	East	Stevens Canyon	Stevens Can	Building	Building - Lodging/VC/Other Ins
	Stevens Canyon Entrance Ranger Station	250	1	MORA NPS		West	Stevens Canyon	Stevens Canyon Entrance		
21097	WASY WTP (Stevens Canyon Entrance)	250	1	Vendor	1	West	Stevens Canyon	Stevens Canyon Entrance		Water System Potable
19937	QTRS W050 WR (Campground Ranger Residence)	250	1	MORA NPS		East	White River	Campground	Building	Building - Housing
19947	BLDG W201 WR (6 Stall Garage / Maintenance Shop)	500	2	MORA NPS		East	White River	White River	Building	Building - Service
19901	BLDG S003 Sunrise (Visitor Center)	500	2	MORA NPS		East	Sunrise	Sunrise	Building	Building - Lodging/VC/Other Ins
19913	BLDG S202 Sunrise (WTP) Solar & Maint Building					East	Sunrise	Sunrise	Building	Building - Industrial/Utility Build
21012	ELEC Dist. Electrical System (Sunrise) Solar & Generator	500	2	MORA NPS		East	Sunrise	Sunrise	Electrical System	Electrical - Solar
19899	QTRS S001 Sunrise (South Block House)					East	Sunrise	Sunrise	Building	Building - Dormitories/Barracks
19900	QTRS S002 Sunrise (North Block House)					East	Sunrise	Sunrise	Building	Building - Housing

19226	BLDG T001 T-Woods (Administration Office)	250	1	MORA NPS		West	T-Woods	T-Woods	Building	Building - Office
19227	QTRS T101 T-Woods	1000	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
19231	QTRS T102 T-Woods					West	T-Woods	T-Woods	Building	Building - Housing
19230	QTRS T104 T-Woods	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
19241	QTRS T107 T-Woods	1000	1	MORA NPS		West	T-Woods	T-Woods	Building	Building - Housing
19918	QTRS T108 T-Woods					West	T-Woods	T-Woods	Building	Building - Housing
19919	QTRS T109 T-Woods					West	T-Woods	T-Woods	Building	Building - Housing
19920	QTRS T110 T-Woods	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
19921	QTRS T111 T-Woods	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
19922	QTRS T112 T-Woods	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
19924	BLDG T115 T-Woods (Temp Curatorial)	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - Housing
94998	QTRS T117 T-Woods (Apartments)	1000	1	MORA NPS		West	T-Woods	T-Woods	Building - Housing	
95000	QTRS T118 T-Woods (Apartments)	1000	1	MORA NPS		West	T-Woods	T-Woods	Building - Housing	
19927	BLDG T200 T-Woods (Greenhouse)	500	1	MORA NPS		West	T-Woods	T-Woods	Building	Building - Laboratories
19929	BLDG T202 T-Woods (WTP)	120	2	Vendor	2	West	T-Woods	T-Woods	Building	Building - Industrial/Utility Build
73345	BLDG T207 Tahoma Woods (Joint Aviation & Mount	500	1	Vendor	1	West	T-Woods	T-Woods	Building	Building - School
	Longmire Dispensing Station	500	1	Vendor	1	West	Longmire		Dispensing Station	
	Totals	32600	66		40					

United States Department of the Interior
National Park Service
Mount Rainier National Park
Technical Specifications Report
Propane Tank Sizes
Date: March 29, 2025

Report Prepared by:
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Technical Specifications Report
Propane Tank Sizes

This report provides the technical specifications of propane tank sizes commonly used for residential, commercial, and industrial purposes, with a focus on four sizes: 120 gallons, 250 gallons, 500 gallons, and 1000 gallons. This document is intended to support the planning, installation, and maintenance of propane storage systems at Mount Rainier National Park. Detailed information on tank capacities, dimensions, weights, material specifications, and general applications is provided to ensure proper selection and compliance with safety and environmental standards.

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1. Technical Specifications of Propane Tank Sizes

1.1. 120 Gallon Propane Tank

- Tank Capacity: 120 gallons (usable propane capacity is approximately 96 gallons at 80% fill).
- Dimensions:
    - Length: 4 feet (approximately)
    - Diameter: 30 inches (approximately)
- Weight:

    - Empty Weight: 200-300 lbs
    - Full Weight: 600-700 lbs
- Material: Steel construction
- Applications: Typically utilized for small residential heating applications, water heaters, stoves, and small-scale propane needs.

1.2. 250 Gallon Propane Tank

- Tank Capacity: 250 gallons (usable propane capacity is approximately 200 gallons at 80% fill).
- Dimensions:
    - Length: 5 feet (approximately)
    - Diameter: 30 inches (approximately)
- Weight:
    - Empty Weight: 300-400 lbs
    - Full Weight: 1,000-1,200 lbs
- Material: Steel construction
- Applications: Suitable for medium-sized residential homes or small businesses with propane-powered appliances such as water heaters, stoves, dryers, and fireplaces.

1.3. 500 Gallon Propane Tank

- Tank Capacity: 500 gallons (usable propane capacity is approximately 400 gallons at 80% fill).
- Dimensions:
    - Length: 8 feet (approximately)
    - Diameter: 37-40 inches (approximately)
- Weight:
    - Empty Weight: 600-700 lbs
    - Full Weight: 2,000-2,200 lbs
- Material: Steel construction

- Applications: Ideal for larger residential properties, multi-appliance homes, or small commercial properties requiring significant propane fuel for heating, cooking, and other operational needs.

1.4. 1000 Gallon Propane Tank

- Tank Capacity: 1000 gallons (usable propane capacity is approximately 800 gallons at 80% fill).
- Dimensions:
    - Length: 10 feet (approximately)
    - Diameter: 41-48 inches (approximately)
- Weight:
    - Empty Weight: 1,200-1,500 lbs
    - Full Weight: 4,500-5,000 lbs
- Material: Steel construction
- Applications: Primarily used in commercial, agricultural, or industrial applications. This size is also suitable for large residential estates, large businesses, or institutions requiring large propane storage for heating, cooking, and industrial processes.

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2. Installation, Safety, and Regulatory Considerations

2.1. Tank Orientation and Placement

- Installation Type: Propane tanks are generally installed horizontally to maximize space and ensure proper operational efficiency. Vertical installations may be considered depending on specific applications.
- Clearance Requirements: Installation must adhere to safety standards, including spacing from buildings, ignition sources, and property lines, as outlined by local, state, and federal regulations.

2.2. Safety Standards and Compliance

- Compliance with NFPA 58: All installations must comply with the National Fire Protection Association (NFPA) Standard 58, governing the storage, handling, and use of propane.

- Pressure Relief and Venting: Tanks must be equipped with adequate pressure relief valves and venting systems to ensure safety and prevent over-pressurization.

2.3. Inspection and Maintenance Protocols

- Inspection Frequency: Routine inspections must be conducted to assess for leaks, corrosion, and any mechanical defects. This includes checking pressure relief valves, regulators, and seals to ensure system integrity.
- Professional Maintenance: Only licensed professionals should perform maintenance on propane systems to ensure compliance with safety standards and to mitigate potential risks.

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3. Environmental and Safety Protocols for Mount Rainier National Park

The installation and operation of propane tanks within Mount Rainier National Park must adhere to environmental protection standards in addition to the safety protocols outlined in this report. The following guidelines should be followed to minimize potential impact on the park's ecosystem:

- Site Selection: Careful consideration must be given to tank placement to minimize environmental impact and ensure that installations do not interfere with natural habitats or water sources.
- Spill Containment: Appropriate spill containment measures, including barriers or secondary containment systems, must be in place to prevent leaks from contaminating surrounding areas.
- Emergency Response: Emergency response plans must be established in case of a propane leak or tank failure. Personnel should be trained in leak detection, containment, and evacuation procedures.

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4. Conclusion

This technical specifications report outlines the essential details required for the installation, use, and maintenance of propane tanks at Mount Rainier National Park. Adherence to these specifications and safety protocols will ensure safe and efficient operations while minimizing environmental impact. For further guidance, the National Park Service encourages consultation with professional propane suppliers, licensed installers, and safety experts.

Note: This document is intended for use by National Park Service personnel and contractors involved in propane system installation, inspection, and maintenance within Mount Rainier National Park. All procedures must adhere to applicable safety regulations and environmental guidelines.