

# UNION PACIFIC Big Boy No. 4014



BUILDING AMERICA®



Union Pacific completed restoration of one of the world's largest steam locomotives – the Big Boy No. 4014 – in 2019, celebrating the 150th anniversary of the completion of the transcontinental railroad. Twenty-five Big Boys were built exclusively for Union Pacific Railroad, the first of which was delivered in 1941. Of the eight remaining Big Boys in existence, No. 4014 is the only one operating today.

The Big Boys were about 133 feet long and weigh 1.2 million pounds. Because of their great length, the frames of the Big Boys are “hinged,” or articulated, to allow them to negotiate curves. They have a 4-8-8-4 wheel arrangement, which means they have four wheels on the leading set of “pilot” wheels which guide the engine, eight drivers on the first engine, another set of eight drivers on the second engine, and four wheels trailing that support the rear of the locomotive. These massive engines normally operated between Ogden, Utah, and Cheyenne, Wyoming.

Seven of the Big Boys were donated for public display in various cities around the country. They can be found in St. Louis, Missouri; Dallas, Texas; Omaha, Nebraska; Denver, Colorado; Scranton, Pennsylvania; Green Bay, Wisconsin; and Cheyenne, Wyoming.

Big Boy No. 4014 was delivered to Union Pacific in December 1941. The locomotive's last run was July 21, 1959, having traveled 1,031,205 miles in its more than 18 years of service. It was retired in December 1961.

No. 4014 was moved from its display location in Pomona, California, to Cheyenne, Wyoming, in 2013, where restoration was completed.

**For more information on steam locomotives, including No. 4014, go to [www.upsteam.com](http://www.upsteam.com).**

## UNION PACIFIC LOCOMOTIVE NO. 4014 SPECIFICATIONS

DRIVING WHEEL DIAMETER		CYLINDER		WHEEL BASE		WEIGHT IN WORKING ORDER (LBS.)		EVAPORATING SURFACES (SQ. FT.)	
68"		DIAMETER	23 <sup>3</sup> / <sub>4</sub> "	DRIVING	18' 3" x 2	LEADING	97,000	TUBES	967
<b>TUBES</b>		STROKE	32"	ENGINE	72' 5 <sup>1</sup> / <sub>2</sub> "	DRIVING	540,000	FLUES	4,218
NUMBER	DIAMETER	<b>BOILER</b>		ENGINE-TENDER	132' 9 <sup>7</sup> / <sub>8</sub> "	TRAILING	125,000	FIREBOX	593
75	2 <sup>1</sup> / <sub>4</sub> "	OUTSIDE DIAMETER 106 <sup>9</sup> / <sub>16</sub> "		<b>SUPERHEATING SURFACE (SQ. FT.)</b>		ENGINE	762,000	CIRCULATORS	111
184	4"			2,466		TENDER (LOADED)	427,500	TOTAL	5,889
LENGTH	22'	PRESSURE	300 lbs.	<b>MAXIMUM TRACTIVE POWER</b>		<b>FIREBOX</b>		<b>FACTOR OF ADHESION</b>	
<b>LENGTH</b>		<b>WATER CAPACITY</b>		135,375 lbs.		LENGTH	235 <sup>1</sup> / <sub>32</sub> "	4.00	
ENGINE AND TENDER 132' 9 <sup>7</sup> / <sub>8</sub> "		24,000 gallons				WIDTH	96 <sup>3</sup> / <sub>16</sub> "	<b>ENGINE AND TENDER WEIGHT</b>	
<b>GAUGE OF TRACK</b>		<b>GRATE AREA</b>				<b>TENDER TYPE</b>		1.2 million lbs.	
4' 8 <sup>1</sup> / <sub>2</sub> "		150		14-wheeled					