

Save Fuel Costs: Track Feller Buncher Simulator

Simulators used as part of an overall heavy equipment training program makes sense on many levels—especially for cost savings during these tough economic times. Organizations that use simulators can avoid burning fuel and enjoy cost savings to their bottom line.

Typical Work Application Descriptions

In order to calculate fuel use, typical Track Feller Buncher work applications must be taken into consideration. Caterpillar classifies the Track Feller Buncher work applications into three categories:

Low. Harvesting application or intermittent felling and stacking in good underfoot conditions. Flat ground, uniform trees below 255 mm (10 inches).

Medium. Harvesting or hot saw application in medium underfoot conditions. Rolling terrain, some trees up to 457 mm (18 inches) or some hardwoods.

High. High cycling in poor underfoot conditions, steep terrain, over stumps or fallen trees. Multiple small diameter trees or larger trees 508 mm (20 inches) or larger hardwoods.

	Low		Medium		High	
Load Factor*	45%-65%		66%-85%		86%-98%	
Fuel Consumption	Gallons	Liters	Gallons	Liters	Gallons	Liters
	7.0-8.5	27.0-33.0	8.5-9.5	33.0-36.0	9.5-11.5	36.0-44.0

Fuel Avoidance Savings

(Formula: Hourly consumption x Local Unit Prices of Fuel = Hourly Fuel Cost)

If you use simulator training one week a month (40 hours), you will avoid using fuel as follows:

	280 to 340 Gallons \$3.85**	1080 to 1320 Liters \$1.02**
Total Savings	\$1,078.00 to \$1,309.00 (1 week) \$12,936.00 to \$15,708.00 (12 weeks)	\$1,101.60 to \$1,346.40 (1 week) \$13,219.20 to \$16,156.80 (12 weeks)

Note: All estimates based on a low engine load factor.

*Average engine load factor based on application description for each range.

**Cost of fuel will fluctuate with market and by country.

How Can You Benefit? learn@catsimulators.com

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When using this information, keep in mind the many variables which can affect fuel consumption. Two operators of different temperament or attitude operating identical machines side by side in the same material can have as much as 10%-12% difference in their consumption rates. However, the ranges shown should be applicable across a wide spectrum of conditions. Your Cat® Dealer representative can help select the most reasonable estimate for your specific situation. Keep in mind also that a fuel consumption study measured over a short period of operation may give higher fuel consumption than shown here. This information was figured for “normal” inefficiencies in the working cycle and will more closely relate to “normal” day to day operation.



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