Xerox Phaser 8860 vs. HP Color LaserJet 4700

Cost-per-Print Comparison: U.S. cents Color for the cost of Black & White

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Spencerlas .

Independent Testing Confirmed the Xerox Phaser 8860 can indeed deliver Documents in Color for the cost of Black & White

— spencerLAB

We printed a set of color documents on the Phaser 8860 and found ...

> Printing in color had essentially the same cost as in merely black-and-white

We printed the same documents on a color laser (the HP Color LaserJet 4700) ...

- ➤ Printing them on the Phaser 8860 *in color* yielded essentially *the same cost* as printing them in black-and-white on the color laser
- ➤ Printing them on the Phaser 8860 *in color* was **2.4 times less expensive** than printing them *in color* on the color laser

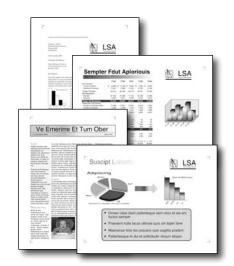
Independent testing by SpencerLab Digital Color Laboratory was commissioned by Xerox Corporation



Xerox Phaser 8860 vs. HP Color LaserJet 4700

Cost-per-Print Comparison: *U.S. cents*







4-page Test Suite **MIXED TEXT & GRAPHICS**

Average Cost-per-Page*				
Mode	Black & White	Color		
Xerox Phaser 8860	2.64¢ ±.09	2.68¢ ±.14		
HP Color LaserJet 4700	2.52¢ ±.32	6.49¢ ±.14		

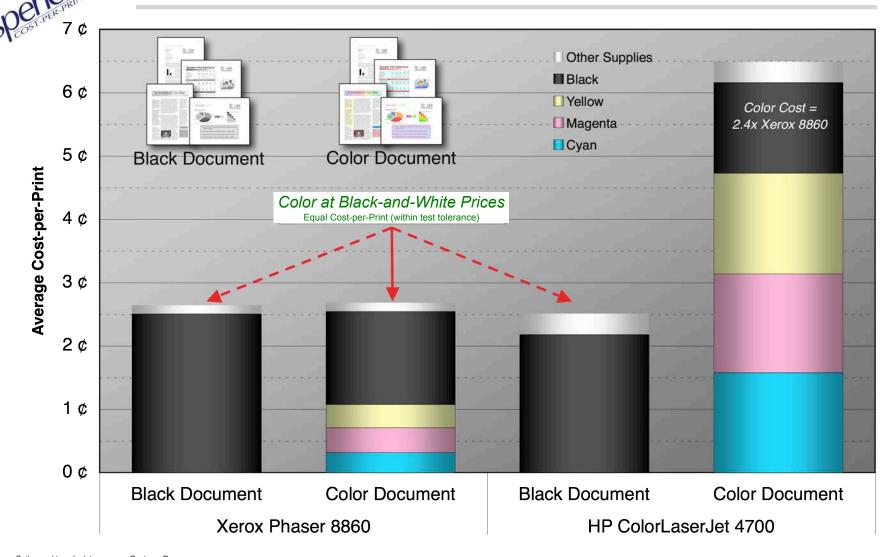
*Cost-per-Suite used to calculate average Cost-per-Page. Cost-per-Page includes supplies other than ink/toner like user-replaceable consumables. All testing performed using default driver settings for Plain paper for Color and Black & White printing.





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Xerox Phaser 8860 *vs.* HP Color LaserJet 4700 Cost-per-Print Comparison: *U.S. cents*



Cost-per-Suite used to calculate average Cost-per-Page.
Supplies other than ink/toner include user-replaceable consumables.
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Methodology

Determine Ink Yields

Tested Devices (assumed to be representative)

- ° Xerox Phaser 8860 Printer
- ° HP Color LaserJet 4700 Printer

Test Document

- ° Office user representative 4-page Suite
- ° Test Suite, with reasonable color balance (part of ISO/IEC 24712 Test Suite)
- ° Almost 25,000 printed pages (6250 4-page Suites)

Measure average number of Suites per each color ink pack[†]/ toner cartridge

- ° Print in DEFAULT settings for Plain Paper via Adobe Reader (8.1.0)
 - For black & white output, Black and White option was selected in the Xerox driver, 'Print in Grayscale' for HP
- ° Print semi-continuously to End-of-Life
 - · Semi-continuously: stops for paper replenishment, overnight, etc.
 - End-of-Life: earlier of INK/TONER OUT signal, or visible defects (fade) attributable to ink/toner supply
 Phaser 8860 and CLJ 4700 have a hard stop at INK/TONER OUT; no visible defects were observed prior to hard stop
- ° Measure number of usable Suites per each color ink pack / toner cartridge
 - · Usable suite is defined as full four-pages; if printing stops mid-suite, the last full suite printed is used for yield computation
- ° Controlled Environment
 - Test laboratory temperature was maintained at typical office ambient 23.0°C ±2.0°C and RH of 50% ±10%
 - Staples 20# Copy Paper and ink / toner sets were acclimated for a minimum of eight hours



[†] Xerox solid ink sticks packaged with 6 sticks per ink pack

Methodology (cont'd)

Determine Component Costs

Calculate average ink / toner component costs

- ° Divide each ink pack / toner cartridge cost by the corresponding ink / toner yield
 - Average suites-per-ink pack or average suites-per-toner cartridge

Calculate user-replaceable component costs

- ° Include user-replaceable components rated for less than the life of the printer
 - Xerox Phaser 8860 has a user-replaceable Maintenance Kit
 - HP Color LaserJet 4700 has a user-replaceable Image Transfer Kit and a Fuser Kit
- ° Component contributions to total Cost-per-Suite based upon manufacturer-rated yields

Component Costs		CYAN	MAGENTA	YELLOW	BLACK
Xerox Phaser 8860	Ink Pack (6 sticks)	\$71.99	\$71.99	\$71.99	\$215.99
	Maintenance Kit	\$39.99			
HP Color LaserJet 4700	Toner	\$253.99	\$253.99	\$253.99	\$178.99
	Image Transfer Kit	\$199.00			
	Fuser Kit	\$249.00			

Pricing as per manufacturers' web sites, as of 11/29/07

Calculate Average Cost-per-Page

Calculate Cost-per-Suite

° Sum the per-Suite component costs to obtain total Cost-per-Suite (four pages)

Calculate Average Cost-per-Page

° Divide the Cost-per-Suite by 4 (four-page Suite) to calculate average Cost-per-Page

