Xerox Phaser 8860 vs. HP Color LaserJet 4700

Cost-per-Print Comparison: Swiss centimes 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: *Swiss centimes*







4-page Test Suite
MIXED TEXT & GRAPHICS

Average Cost-per-Page*					
Mode	Black & White	Color			
Xerox Phaser 8860	3.92c ±0.13	3.99c ±0.20			
HP Color LaserJet 4700	3.91c ±0.49	10.05c ±0.21			

*Cost-per-Suite used to calculate average Cost-per-Page.

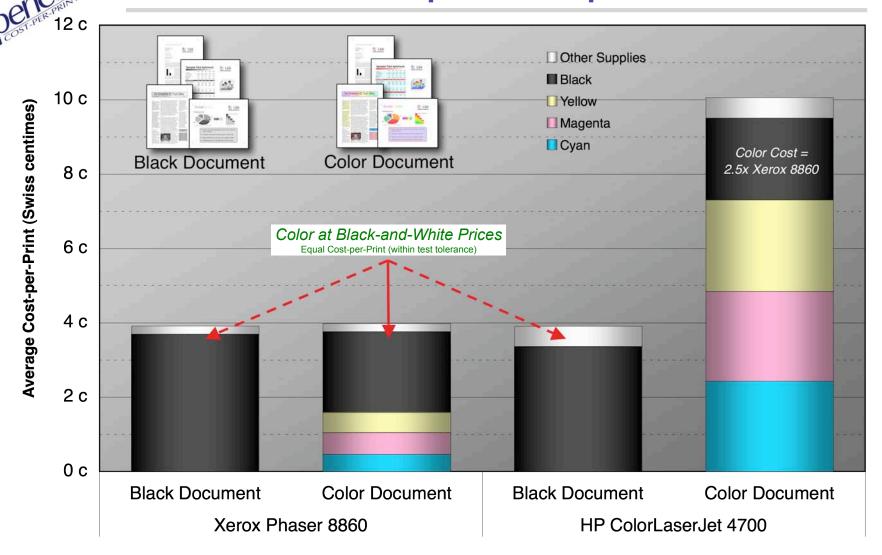
Cost-per-Page includes supplies other than ink/toner like user-replaceable consumables.

All testing performed using default driver settings for Plain paper for Color and Black & White printing.





Xerox Phaser 8860 *vs.* HP Color LaserJet 4700 Cost-per-Print Comparison: *Swiss centimes*



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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)	CHF 106.35	CHF 106.35	CHF 106.35	CHF 319.04
	Maintenance Kit	CHF 65.64			
HP Color LaserJet 4700	Toner	CHF 392.00	CHF 392.00	CHF 392.00	CHF 276.00
	Image Transfer Kit	CHF 328.00			
	Fuser Kit	CHF 409.00			

Pricing as per manufacturers' web sites (incl. VAT) 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

