

Xerox Phaser 8860 **vs.** **HP Color LaserJet 4700**

Cost-per-Print Comparison: Canadian cents
Color for the cost of Black & White

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***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 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

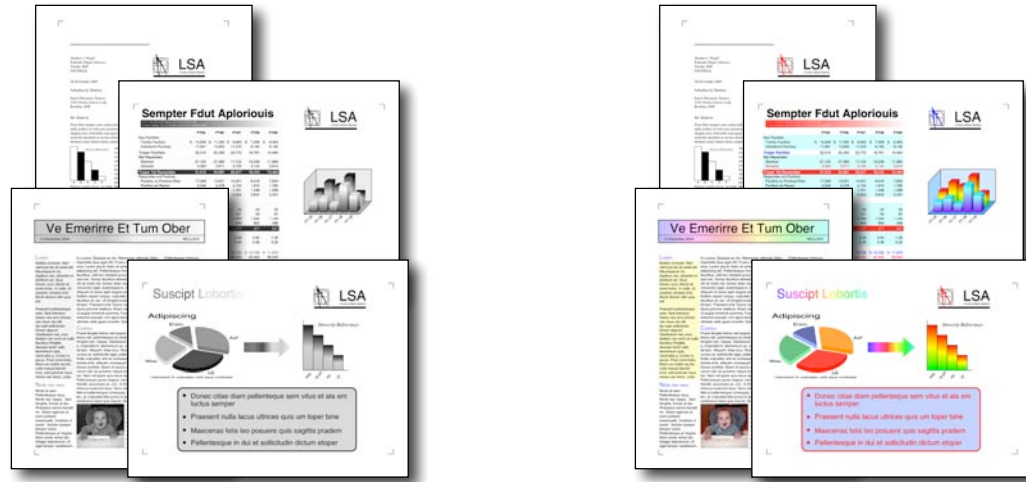
Independent testing by *SpencerLab* Digital Color Laboratory was commissioned by Xerox Corporation



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Cost-per-Print Comparison: *Canadian cents*

spencerLAB
COST-PER-PRINT TESTED



4-page Test Suite
MIXED TEXT & GRAPHICS

Average Cost-per-Page*		
Mode	Black & White	Color
Xerox Phaser 8860	2.57¢ ±0.09	2.71¢ ±0.14
HP ColorLaserJet 4700	2.57¢ ±0.32	6.53¢ ±0.14

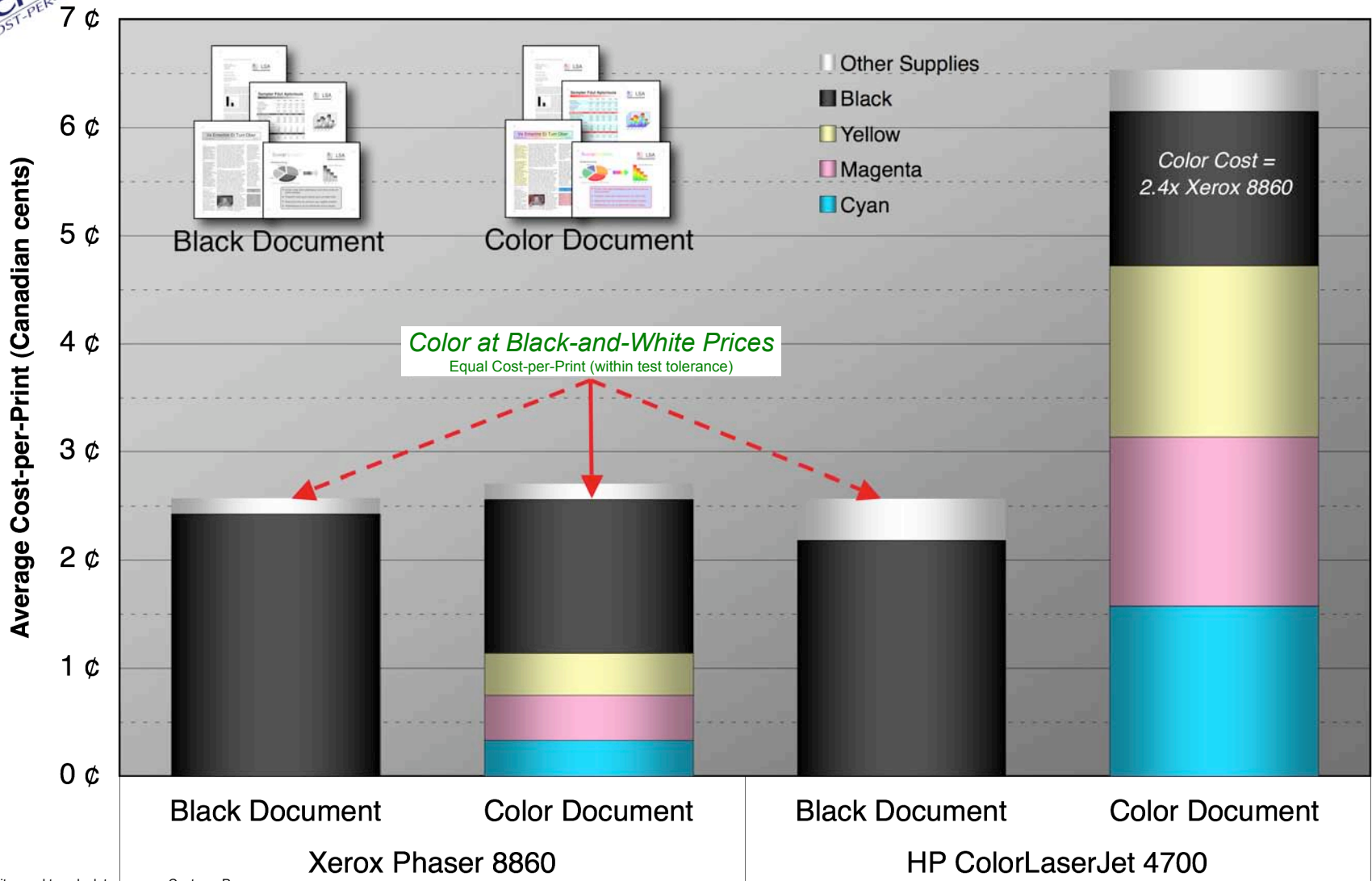
*Cost-per-Suite used to calculate average Cost-per-Page.
Cost-per-Page includes supplies other than ink/toner like user-replaceable consumables.
All testing performed using default driver settings for Plain paper for Color and Black & White printing.

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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)	\$76.00	\$76.00	\$76.00	\$209.00
	Maintenance Kit	\$43.00			
HP Color LaserJet 4700	Toner	\$253.33	\$253.33	\$253.33	\$179.00
	Image Transfer Kit	\$233.00			
	Fuser Kit	\$285.00			

Pricing (excl. VAT) as per GAP Intelligence, provided by Xerox as of 11/15/07

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

