



# **Ink Yield Test Report**

## **North American Brands**

**April 2007**

**Updated January 2008**

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## Revision History

April 2007	Original Test Results Published
July 2007	<p>1) Additional Printers Added:</p> <ul style="list-style-type: none"><li>• Kodak EASYSHARE 5100</li><li>• HP Photosmart C4280</li><li>• HP Photosmart C5280</li><li>• HP Officejet J5780</li></ul> <p>2) Additional photo papers added for EASYSHARE 5100</p> <p>3) Supplemental Cartridge Yield Data for HP Photosmart C4180 corrected</p>
January 2008	Updated Epson CX6000 data, added Kodak 5500 data.

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## Executive Summary

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QualityLogic Inc. has been a provider of leading-edge QA and QC test tools and services for the imaging and telecommunications industries for more than 20 years. Its tools and services are used for conformance, performance, interoperability, and competitive analysis testing – from low-level firmware testing to high-level multi-tier application testing. Its target markets are companies that develop and market printers, multifunction peripherals, telephony/IP products and services, and client-based/mobility software.

QualityLogic partners with leading technology firms and standards organizations to develop new and enhanced test solutions for emerging technologies. The following are some examples of QualityLogic affiliations and memberships:

### Standards Organizations

- International Committee for Information Technology Standards (INCITS)
- Print On Demand Initiative (PODI)

### Affiliations

- PC Magazine
- Computer Shopper
- Microsoft Certified Partner and Authorized Test Partner
- PMA – The Worldwide Community of Imaging Associations

Kodak has been a customer of QualityLogic's for several years and uses many QualityLogic testing products to help validate its printing products. In the fall of 2006, Kodak approached QualityLogic with a request to perform a comparative test to validate the ink yield of its soon-to-be-released EASYSHARE All-in-One Printers. The results of this comparative test are contained in this report.

QualityLogic is a member of ISO INCITS W1, the committee that developed the technically robust, consensus-driven international standard for measuring print cartridge yields. QualityLogic participated in the development of these standards and fully supports the standards that are approved for color ink and toner yield, monochrome ink yield, and monochrome toner yield. All but one of the companies whose printers were tested by QualityLogic for Kodak are also members of this committee.

The following are key provisions of these standards for inkjet and color toner cartridge yield (taken from the recent ISO press release announcing their approval of the standard):

- Standard test document suite: Use of a standard suite of five pages printed in a controlled environment with printer default settings.
- Number of cartridges tested: A minimum of nine of each cartridge is tested until they reach end of life, allowing reliable estimates of average predicted yield within statistically defined boundaries.
- Source for cartridges: Cartridges and printers used represent those available to customers on the open market.
- Clear, objective, end-of-life criteria: Determine cartridge yield using a well-defined end-of-life criterion.
- Number of printers: A minimum of three cartridge sets are tested on three different printers to avoid bias due to printer variability.
- Controlled environment: Printing environment is controlled and consistent because variations can affect yield.

- Objectivity: Because of worldwide and industry-wide participation, the testing criteria reflect objectivity in developing a reliable and rigorous standard.

ISO/IEC 24711 was used for this test to measure both color ink yield using the ISO/IEC 24712 color test suite and monochrome ink yield using the ISO/IEC 19752 test suite.

ISO is currently working on a standard for measuring photo ink yield, which QualityLogic is following closely. In the interim, QualityLogic developed its own Color Photo Cartridge Yield Test Methodology, which closely follows the standards that have been released. This methodology has been used by QualityLogic for more than a year and was used for this test.

Kodak also requested that QualityLogic test their Premium Photo Paper and Gloss Photo Paper on the EASYSHARE 5100, 5300 and 5500 to verify the yield claims of their Photo Value Packs. These tests adhered to all requirements of QualityLogic's Color Photo Yield Test Methodology except that the best paper and highest print quality settings were not used.

## Printers and Cartridges Tested

Company	Printer	Cartridges
Kodak	EASYSHARE 5500	3J8965, 3J8966
Kodak	EASYSHARE 5300	3J8965, 3J8966
Kodak	EASYSHARE 5100	3J8965, 3J8966
Brother	MFC-5460CN	LC51BK, LC51C, LC51M, LC51Y
Canon	PIXMA MP160 PIXMA MP510 PIXMA MP600 PIXMA MP810	PG-40, CL-41 PGI-5, CLI-8C, CLI-8M, CLI-8Y PGI-5, CLI-8C, CLI-8M, CLI-8Y, CLI-8B PGI-5, CLI-8C, CLI-8M, CLI-8Y, CLI-8B
Epson	Stylus CX6000 Stylus Photo RX580	T069120, T069220, T069320, T069420 T078120, T078220, T078320, T078420, T078520, T078620
Hewlett-Packard	Photosmart C3180 Photosmart C4180 Photosmart C4280  Photosmart C5180 Photosmart C5280 Officejet J5780	HP92, HP93 HP98, HP93 HP74, HP75 HP02 C8721WN, HP02 C8771WN, HP02 C8772WN, HP02 C8773WN, HP02 C8774WN, HP02 C8775 WN HP74, HP75 HP74, HP75
Lexmark	X3470 X8350	18C0781 18C0032, 18C003233

## Summary of Yield Test Results

Company	Printer	Cartridge <sup>(1)</sup>	Color Ink Yield <sup>(2)</sup>	Mono Ink Yield <sup>(3)</sup>	Photo Ink Yield <sup>(4)</sup>
Kodak	EASYSHARE 5500	Black	342	535	*1472
		Color	376	*3741	166
Kodak	EASYSHARE 5300	Black	342	536	*1663
		Color	378	*3753	167
Kodak	EASYSHARE 5100	Black	342	537	*1695
		Color	378	*3747	167
Brother	MFC-5460CN	Black	533	543	*4244
		Cyan	809	*9511	152
		Magenta	632	*12018	172
		Yellow	824	*12147	173
Canon	PIXMA MP160	Black	332	360	*1786
		Tri-color	324	*2411	110
Canon	PIXMA MP510	Pigment Black	490	521	*2979
		Cyan	874	*6680	354
		Magenta	713	*6360	252
		Yellow	666	*8584	269
Canon	PIXMA MP600	Pigment Black	532	561	*2635
		Black	*6348	*10753	*1037
		Cyan	900	*6323	353
		Magenta	686	*5708	267
		Yellow	702	*7410	316
Canon	PIXMA MP810	Pigment Black	514	541	*2553
		Black	*5782	*9740	*1099
		Cyan	873	*5240	366
		Magenta	672	*4937	284
		Yellow	712	*6996	333
Epson	Stylus CX6000	Black	248	301	*645
		Cyan	440	*1,080	99
		Magenta	287	*1,371	94
		Yellow	451	*1,616	120
Epson	Stylus Photo RX580	Black	308	338	315
		Cyan	976	*2912	362
		Magenta	489	*3746	245
		Yellow	459	*3164	177
		Light Cyan	**427	*2264	97
		Light Magenta	**607	*2262	114
HP	Photosmart C3180	Black	203	218	*1599
		Tri-color	210	*1881	61
HP	Photosmart C4180	Black	399	428	*2675
		Tri-color	206	*2022	60

Company	Printer	Cartridge <sup>(1)</sup>	Color Ink Yield <sup>(2)</sup>	Mono Ink Yield <sup>(3)</sup>	Photo Ink Yield <sup>(4)</sup>
HP	Photosmart C4280	Black	186	201	*1002
		Tri-color	166	*979	47
HP	Photosmart C5180	Black	682	581	*861
		Cyan	375	*1696	306
		Magenta	373	*1312	362
		Yellow	496	*1962	155
		Light Cyan	*7508	*2726	136
		Light Magenta	*5506	*1652	143
HP	Photosmart C5280	Black			
		Tri-color			
HP	Officejet J5780	Black	188	198	*811
		Tri-color	178	*1529	49
Lexmark	X3470	Tri-color	116	230	77
Lexmark	X8350	Black	291	285	*3744
		Tri-color	264	*2192	68

\* Denotes estimated supplemental cartridge yield defined in Test Methodology

\*\* Denotes average supplemental cartridge yield defined in Test Methodology

- 1) Actual cartridge model numbers defined in Printers and Cartridges Tested Table on page 5.
- 2) Based on ISO/IEC 24711 Test Methodology (2006-12-15) using ISO/IEC 24712 Test Suite (Date 12-15-2006). Pages were printed on 8 ½" x 11" plain paper (see Detailed Test Results).
- 3) Based on ISO/IEC 24711 Test Methodology (2006-12-15) using ISO/IEC 19752 Test Suite (Date 12-15-2006). Pages were printed on 8 ½" x 11" plain paper (see Detailed Test Results).
- 4) Based on QualityLogic Color Photo Cartridge Yield Test Methodology, Revision 1.2) using QualityLogic Color Photo Suite. Photos printed were 4" x 6" borderless on 8 ½" x 11" photo paper (see Detailed Test Results).



## Test Methodology

In order to obtain these yield results, two different methodologies were used in combination with three test suites. This section will detail the common areas between the methodologies, the differences between them, and highlight some key terms from ISO/IEC 24711, 24712, and 19752 that are particularly important to understand when reviewing these yield claims.

### Common Methodology and Definitions – In accordance with ISO/IEC 24711

Number of Printers Tested	Minimum of 3
Number of Cartridges Tested	Minimum of 9 of each color
Temperature	Testing room average 23.0°C ± 2°C with all running average temperatures between 20.0°C and 26.0°C
Humidity*	Testing room average 50% ± 10% RH with all running average RH readings between 35% and 65%
Fade	Phenomenon in which a significant reduction in uniformity occurs due to ink depletion
Ink Out	Signal generated by the printing system when the usable ink in the system is depleted and the printer stops printing
End of Life (EOL)	A condition determined by one of two mechanisms: fade or ink out (only if ink out stops printing)
Semi-Continuous Printing	Printing in a continuous manner, pausing only for intra-job servicing, printer calibrations, paper changes, breaks, and end of work days
Declared Cartridge Yield	Cartridge Yield (in pages) that is at or below the lower 90% confidence bound of the average yield
Estimated Supplemental Cartridge Yield	Estimated yield for a supplemental cartridge (real or estimated with use of a proxy) calculated with at least 3 cartridges
Average Supplemental Cartridge Yield	Average yield for a supplemental cartridge where EOL was reached on at least nine cartridges (three per printer)
Proxy Cartridge	A primary cartridge of the same physical size as a supplemental cartridge which had a starting weight within +/- 10% of the supplemental cartridge starting weight.

\*Not specified in ISO 24711, but common to each test executed

**Color Ink Methodology and Definitions –  
In accordance with ISO/IEC 24711, ISO IEC 24712**

Test Suite	ISO/IEC 24712
Driver Set-up*	All image and print quality modifiers were set to their factory pre-set configuration for the printer and default installed condition for the driver. If auto media detection was available on the printer, it was disabled and media-type set to plain paper.
Paper	8 ½" by 11"
Semi-Continuous Printing	Each copy of the test suite was printed as a separate five-page print job allowing for some intra-job servicing and calibration to take place.
Primary Cartridge	Cartridge containing full density black, cyan, magenta, or yellow, or a combination of full density cyan, magenta and yellow.
Supplemental Cartridge	Cartridge other than the full density cyan, magenta, yellow and black cartridges
Individual Cartridge Yield	Value determined by counting the number of diagnostic pages (last page of the test page suite) printed between cartridge installation and end of life, and multiplying by five

**Mono Ink Methodology and Definitions –  
In accordance with ISO/IEC 24711, ISO/IEC 19752**

Test Suite	ISO/IEC 19752
Driver Set-up*	See Color Ink methodology. In addition if a “Black Only” or “Text Only” mode was available in the driver, it was enabled.
Paper	8 ½" x 11"
Semi-Continuous Printing	Each copy of the test suite was printed as a separate one-page print job allowing for some intra-job servicing and calibration to take place
Primary Cartridge	The black cartridge or, if no black cartridge was present, the color cartridges that were used to develop composite black.
Supplemental Cartridge	Any installed cartridge but the full density black cartridge including the full density Cyan, Magenta, and Yellow cartridges, as well as any photo cartridges
Individual Cartridge Yield	The number of test pages printed between cartridge installation and end of life

**Photo Ink Methodology and Definitions –  
In accordance with QualityLogic Color Photo Cartridge Yield Test Methodology**

Test Suite	QualityLogic Color Photo Suite
Driver Set-up*	The highest print quality mode readily available in the driver was used
Paper	The best photo paper recommended by each manufacturer. 8 ½" x 11" papers were used to print a borderless 4" x 6" photo.
Semi-Continuous Printing	Each copy of the test suite was printed as a separate 10-page print job allowing for some intra-job servicing and calibration to take place
Primary Cartridge	Cyan, Magenta, Yellow and Photo cartridges or any cartridges containing these colors were considered as primary cartridges. In addition, any other cartridge that completed nine or more cartridges during the execution of nine of the above was considered as primary.
Supplemental Cartridge	Any cartridge installed in the printer while printing photos that did not meet the definition of a primary cartridge was considered a supplemental cartridge
Individual Cartridge Yield	The number of test pages printed between cartridge installation and end of life

\*A detailed report of driver settings used for each test is available from QualityLogic at [www.qualitylogic.com](http://www.qualitylogic.com).

## Detailed Test Results

The following data was extracted from the Yield Reports for each product tested – complete reports are available upon request.

<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5500</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	July 10, 2007 to July 19, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter Using the 19752 Mono test page, the setting in the Advanced Tab "Print Colors as: Black and White" was selected.

### Declaration of Yield

#### Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5500:

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 342 standard pages
- Average Color Cartridge Yield: Up to 376 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 535 standard pages
- Estimated supplemental Color Cartridge Yield: Up to 3,741 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

#### ISO 24712

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	346	342	9/15
3J8966	Color	383	376	9/12

#### ISO 19752

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	536	535	21/21
3J8966*	Color	3,755	3,741	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5500</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	July 19, 2007 to July 20, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	Ultra Premium Photo Paper - Kodak
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter No settings were available in the driver for Photo printing.

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5500:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 166 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1472 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	166	9/9
3J8965*	K (Black)	1,700	1,472	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5300</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	April 18, 2007 to April 24, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter Using the 19752 Mono test page, the setting in the Advanced Tab "Print Colors as: Black and White" was selected.

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5300:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 342 standard pages
- Average Color Cartridge Yield: Up to 378 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 536 standard pages
- Estimated supplemental Color Cartridge Yield: Up to 3,753 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	347	342	9/12
3J8966	Color	385	378	9/9

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	537	536	21/21
3J8966*	Color	3,758	3,753	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5300</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	May 3, 2007 to May 4, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 1/2" x 11" photo paper
Media used	Ultra Premium Photo Paper - Kodak
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter No settings were available in the driver for Photo printing.

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5300:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 167 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1663 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	167	9/9
3J8965*	K (Black)	1,911	1,663	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5100</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	April 18, 2007 to April 24, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter Using the 19752 Mono test page, the setting in the Advanced Tab "Print Colors as: Black and White" was selected.

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5100:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield – Up to 342 standard pages
- Average Color Cartridge Yield – Up to 378 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield – Up to 537 standard pages
- Estimated supplemental Color Cartridge Yield – Up to 3,747 standard pages

Values obtained by continuous printing. Declared yield values in accordance with ISO/IEC 24711

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	347	342	9/12
3J8966	Color	385	378	9/9

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8965	K (Black)	539	537	21/21
3J8966*	Color	3,773	3,747	3/3

\* Denotes supplemental cartridge



<b>Printer Identifier</b>	<b>Kodak EASYSHARE 5100</b>
Printer Manufacturer	Kodak
Cartridge Identifier	3J8965 & 3J8966
Cartridge Type	Separate ink supply and print head
Date Tested	May 4, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	Ultra Premium Photo Paper - Kodak
Driver version	Driver Version = 04/03/2007,2.5.119.0 The following driver settings were used: Print Quality = Normal Paper Size = Letter No settings were available in the driver for Photo printing.

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5100:**

Using the QualityLogic Color Photo test suite provides the following results:

Average Color Cartridge Yield – Up to 167 standard pages

Estimated supplemental K (Black) Cartridge Yield – Up to 1,695 standard pages

Values obtained by continuous printing. Declared yield values in accordance with QualityLogic Color Photo Yield Test Methodology

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	167	9/9
3J8965*	K (Black)	1,730	1,695	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Brother MFC-5460CN</b>
Printer Manufacturer	Brother
Cartridge Identifier	LC51
Cartridge Type	Separate ink supply and print head
Date Tested	February 2, 2007 to February 8, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 02/24/2006, 01.00.00.00 The following default driver settings were used: Media Type = Plain Paper Quality = Normal

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Brother MFC-5460CN:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 533 standard pages
- Average Cyan Cartridge Yield: Up to 809 standard pages
- Average Yellow Cartridge Yield: Up to 824 standard pages
- Average Magenta Cartridge Yield: Up to 632 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 543 standard pages
- Estimated supplemental Cyan Cartridge Yield: Up to 9,511 standard pages
- Estimated supplemental Yellow Cartridge Yield: Up to 12,147 standard pages
- Estimated supplemental Magenta Cartridge Yield: Up to 12,018 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
LC51BK	K (Black)	539	533	12/18
LC51C	Cyan	833	809	9/14
LC51Y	Yellow	841	824	9/13
LC51M	Magenta	648	632	9/15

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
LC51BK	K (Black)	550	543	9/9
LC51C*	Cyan	10,704	9,511	3/3
LC51Y*	Yellow	12,479	12,147	3/3
LC51M*	Magenta	12,953	12,018	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Brother MFC-5460CN</b>
Printer Manufacturer	Brother
Cartridge Identifier	LC51
Cartridge Type	Separate ink supply and print head
Date Tested	February 8, 2007 to February 13, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	BP61GLL, Innobella™ Premium Glossy Photo Paper
Driver version	Driver Version = 02/24/2006, 01.00.00.00 The following driver settings were used: Media Type = Brother Premium Glossy Photo Paper Quality = Highest

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Brother MFC-5460CN:**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield: Up to 152 standard pages
- Average Yellow Cartridge Yield: Up to 173 standard pages
- Average Magenta Cartridge Yield: Up to 172 standard pages
- Estimated Supplemental K (Black) Cartridge Yield: Up to 4,244 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
LC51C	Cyan	157	152	9/12
LC51Y	Yellow	177	173	9/10
LC51M	Magenta	177	172	9/11
LC51BK*	K (Black)	4,495	4,244	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP160</b>
Printer Manufacturer	Canon
Cartridge Identifier	PG-40 & CL-41
Cartridge Type	Integral ink supply and print head
Date Tested	January 30, 2007 to February 5, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 05/11/2006 The following default driver settings were used: Paper = Plain Quality = Standard

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP160:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 332 standard pages
- Average Tri-color Cartridge Yield: Up to 324 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 360 standard pages
- Estimated supplemental Tri-color Cartridge Yield: Up to 2,411 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PG-40	K (Black)	349	332	9/12
CL-41	Tri-color	333	324	9/15

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PG-40	K (Black)	370	360	9/9
CL-41 *	Tri-color	2,548	2,411	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP160</b>
Printer Manufacturer	Canon
Cartridge Identifier	PG-40 & CL-41
Cartridge Type	Integral ink supply and print head
Date Tested	February 6, 2007 to February 7, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	PP-101, Photo Paper Plus Glossy
Driver version	Driver Version = 05/11/2006 The following driver settings were used: Print Quality = High Paper Type = Photo Paper Plus Glossy

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP160:**

Using the QualityLogic Color Photo Suite:

Average Tri-color Cartridge Yield: Up to 110 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,786 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
CL-41	Tri-color	113	110	9/9
PG-40*	K (Black)	1,808	1,786	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP510</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M
Cartridge Type	Separate ink supply and print head
Date Tested	January 31, 2007 to February 12, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 04/24/2006, 1.95.2.60 The driver's default setting was used: Print Quality = Standard Media Type = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP510:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield Up to 490 standard pages
- Average Cyan Cartridge Yield Up to 874 standard pages
- Average Yellow Cartridge Yield Up to 666 standard pages
- Average Magenta Cartridge Yield Up to 713 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield Up to 521 standard pages
- Estimated supplemental Cyan Cartridge Yield Up to 6,680 standard pages
- Estimated supplemental Yellow Cartridge Yield Up to 8,584 standard pages
- Estimated supplemental Magenta Cartridge Yield Up to 6,360 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Black)	504	490	9/12
CLI-8C	Cyan	903	874	9/12
CLI-8Y	Yellow	706	666	9/12
CLI-8M	Magenta	724	713	9/12

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Black)	532	521	9/9
CLI-8C*	Cyan	7,059	6,680	3/3
CLI-8Y*	Yellow	8,924	8,584	3/3
CLI-8M*	Magenta	6,699	6,360	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP510</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M
Cartridge Type	Separate ink supply and print head
Date Tested	February 6, 2007 to February 9, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	PP-101, Photo Paper Plus Glossy
Driver version	Driver Version = 04/24/2006, 1.95.2.60 The following driver settings were used: Print Quality = High Media Type = Photo Paper Plus Glossy

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP510**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield Up to 354 standard pages
- Average Yellow Cartridge Yield Up to 269 standard pages
- Average Magenta Cartridge Yield Up to 252 standard pages
- Estimated supplemental K (Black) Cartridge Yield Up to 2,979 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
CLI-8C	Cyan	363	354	9/9
CLI-8Y	Yellow	273	269	11/14
CLI-8M	Magenta	256	252	12/15
PGI-5*	K (Black)	3,050	2,979	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP600</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M, CLI-8B
Cartridge Type	Separate ink supply and print head
Date Tested	January 22, 2007 to February 1, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 05/01/2006, 1.95.2.70 The driver's default setting was used: Print Quality = Standard Media Type = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP600:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Pigment Black) Cartridge Yield: Up to 532 standard pages
- Average Cyan Cartridge Yield: Up to 900 standard pages
- Average Yellow Cartridge Yield: Up to 702 standard pages
- Average Magenta Cartridge Yield: Up to 686 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 6,348 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Pigment Black) Cartridge Yield: Up to 561 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 10,753 standard pages
- Estimated supplemental Cyan Cartridge Yield: Up to 6,323 standard pages
- Estimated supplemental Yellow Cartridge Yield: Up to 7,410 standard pages
- Estimated supplemental Magenta Cartridge Yield: Up to 5,708 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Pigment Black)	542	532	13/20
CLI-8C	Cyan	919	900	9/12
CLI-8Y	Yellow	711	702	9/15
CLI-8M	Magenta	699	686	9/15
CLI-8B*	K (Black)	7,474	6,348	3/6

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Pigment Black)	566	561	9/9
CLI-8C*	Cyan	6,440	6,323	3/3
CLI-8Y*	Yellow	7,531	7,410	3/3
CLI-8M*	Magenta	5,795	5,708	3/3
CLI-8B*	K (Black)	10,990	10,753	3/3

\* Denotes supplemental cartridge



<b>Printer Identifier</b>	<b>Canon PIXMA MP600</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M, CLI-8B
Cartridge Type	Separate ink supply and print head
Date Tested	January 26, 2007 to January 31, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	PP-101, Photo Paper Plus Gloss
Driver version	Driver Version = 05/01/2006, 1.95.2.70 The following driver settings were used: Print Quality = High Media Type = Photo Paper Plus Glossy

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP600:**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield: Up to 353 standard pages
- Average Yellow Cartridge Yield: Up to 316 standard pages
- Average Magenta Cartridge Yield: Up to 267 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 1,037 standard pages
- Estimated supplemental K (Pigment Black) Cartridge Yield: Up to 2,635 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
CLI-8C	Cyan	363	353	9/9
CLI-8Y	Yellow	327	316	9/12
CLI-8M	Magenta	276	267	10/13
CLI-8B*	K (Black)	1,092	1,037	3/3
PGI-5*	K (Pigment Black)	2,750	2,635	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP810</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M, CLI-8B
Cartridge Type	Separate ink supply and print head
Date Tested	February 5, 2007 to February 8, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 06/23/2006, 1.95.3.30 The following default driver settings were used: Media Type = Plain Paper Quality = Standard

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP810:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Pigment Black) Cartridge Yield: Up to 514 standard pages
- Average Cyan Cartridge Yield: Up to 873 standard pages
- Average Yellow Cartridge Yield: Up to 712 standard pages
- Average Magenta Cartridge Yield: Up to 672 standard pages
- Estimated Supplemental K (Black) Cartridge Yield: Up to 5,782 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Pigment Black) Cartridge Yield: Up to 541 standard pages
- Estimated Supplemental K (Black) Cartridge Yield: Up to 9,740 standard pages
- Estimated Supplemental Cyan Cartridge Yield: Up to 5,240 standard pages
- Estimated Supplemental Yellow Cartridge Yield: Up to 6,996 standard pages
- Estimated Supplemental Magenta Cartridge Yield: Up to 4,937 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Pigment Black)	517	514	15/21
CLI-8C	Cyan	894	873	9/12
CLI-8Y	Yellow	728	712	9/15
CLI-8M	Magenta	688	672	9/15
CLI-8B*	K (Black)	6,168	5,782	3/6

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
PGI-5	K (Pigment Black)	547	541	9/9
CLI-8C*	Cyan	5,767	5,240	3/3
CLI-8Y*	Yellow	7,819	6,996	3/3
CLI-8M*	Magenta	5,632	4,937	3/3
CLI-8B*	K (Black)	10,983	9,740	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Canon PIXMA MP810</b>
Printer Manufacturer	Canon
Cartridge Identifier	PGI-5 & CLI-8C, CLI-8Y, CLI-8M, CLI-8B
Cartridge Type	Separate ink supply and print head
Date Tested	February 8, 2007 to February 12, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 1/2" x 11" photo paper
Media used	PP-101, Photo Paper Plus Glossy
Driver version	Driver Version = 06/23/2006, 1.95.3.30 The following driver settings were used: Print Quality = High Media Type = Photo Paper Plus Glossy

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Canon PIXMA MP810:**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield: Up to 366 standard pages
- Average Yellow Cartridge Yield: Up to 333 standard pages
- Average Magenta Cartridge Yield: Up to 284 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 1,099 standard pages
- Estimated supplemental K (Pigment Black) Cartridge Yield: Up to 2,553 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
CLI-8C	Cyan	377	366	9/9
CLI-8Y	Yellow	341	333	9/12
CLI-8M	Magenta	290	284	9/12
CLI-8B*	K (Black)	1,145	1,099	3/3
PGI-5*	K (Pigment Black)	2,672	2,553	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Epson Stylus CX6000</b>
Printer Manufacturer	Epson
Cartridge Identifier	T069120, T069220, T069320, T069420
Cartridge Type	Separate ink supply and print head
Date Tested	January 30, 2007 to February 13, 2007 & July 11, 2007 to July 18, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 06/08/2006, 5.51.00.00 The driver's default settings were used for color test: Print Quality = Text and Image Media Type = Plain The driver settings used for Mono testing were: Print Quality = Text Media Type = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Epson Stylus CX6000:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 248 standard pages
- Average Cyan Cartridge Yield: Up to 440 standard pages
- Average Yellow Cartridge Yield: Up to 451 standard pages
- Average Magenta Cartridge Yield: Up to 287 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 201 standard pages
- Estimated Supplemental Cyan Cartridge Yield: Up to 1,080 standard pages
- Estimated Supplemental Yellow Cartridge Yield: Up to 1,616 standard pages
- Estimated Supplemental Magenta Cartridge Yield: Up to 1,371 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T069120	K (Black)	253	248	9/12
T069220	Cyan	453	440	9/12
T069420	Yellow	462	451	9/12
T069320	Magenta	294	287	9/12

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T069120	K (Black)	311	301	9/9
T069220*	Cyan	1,336	1,080	3/3
T069420*	Yellow	1,986	1,616	3/3
T069320*	Magenta	1,715	1,371	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Epson Stylus CX6000</b>
Printer Manufacturer	Epson
Cartridge Identifier	T069120, T069220, T069320, T069420
Cartridge Type	Separate ink supply and print head
Date Tested	February 5, 2007 to February 7, 2007 & July 18, 2007 to July 23, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	S041286, Premium Photo Paper Glossy
Driver version	Driver Version = 06/08/2006, 5.51.00.00 The following driver settings were used: Quality Option = Best Photo Paper Type = Premium Photo Paper Glossy

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Epson Stylus CX6000:**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield: Up to 99 standard pages
- Average Yellow Cartridge Yield: Up to 120 standard pages
- Average Magenta Cartridge Yield: Up to 94 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 645 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T069220	Cyan	107	99	9/12
T069420	Yellow	128	120	9/9
T069320	Magenta	100	94	9/12
T069120*	K (Black)	895	645	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Epson Stylus Photo RX580</b>
Printer Manufacturer	Epson
Cartridge Identifier	T078120, T078220, T078320, T078420, T078520, T078620
Cartridge Type	Separate ink supply and print head
Date Tested	January 22,2007 to January 30,2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Paper Size	Letter
Print mode used	Continuous
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 06/08/2006, 6.00.00.00 The driver's default setting was used: Paper = Plain Quality = Text

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Epson Stylus Photo RX580:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 308 standard pages
  - Average Cyan Cartridge Yield: Up to 976 standard pages
  - Average Yellow Cartridge Yield: Up to 459 standard pages
  - Average Magenta Cartridge Yield: Up to 489 standard pages
  - Average supplemental Light Cyan Cartridge Yield: Up to 427 standard pages
  - Average supplemental Light Magenta Cartridge Yield: Up to 607 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield Up to 338 standard pages
  - Estimated supplemental Cyan Cartridge Yield: Up to 2,912 standard pages
  - Estimated supplemental Yellow Cartridge Yield: Up to 3,164 standard pages
  - Estimated supplemental Magenta Cartridge Yield: Up to 3,746 standard pages
  - Estimated supplemental Light Cyan Cartridge Yield: Up to 2,264 standard pages
  - Estimated supplemental Light Magenta Cartridge Yield: Up to 2,262 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T078120	K (Black)	321	308	26/36
T078220	Cyan	1,028	976	9/14
T078420	Yellow	474	459	18/25
T078320	Magenta	473	489	18/25
T078520*	Light Cyan	438	427	21/28
T078620*	Light Magenta	645	607	13/20

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T078120	K (Black)	348	338	11/11
T078220*	Cyan	3,205	2,912	3/3
T078420*	Yellow	3,407	3,164	3/3
T078320*	Magenta	4,110	3,746	3/3
T078520*	Light Cyan	2,485	2,264	3/3
T078620*	Light Magenta	2,497	2,262	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Epson Stylus Photo RX580</b>
Printer Manufacturer	Epson
Cartridge Identifier	T078120, T078220, T078320, T078420, T078520, T078620
Cartridge Type	Separate ink supply and print head
Date Tested	January 29, 2007 to February 6, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8" x 10" photo paper
Media used	SO41465, Premium Photo Paper Glossy
Driver version	Driver Version = 06/08/2006, 6.00.00.00 The following driver settings were used: Quality Option = Best Photo Paper Type = Premium Photo Paper Glossy Paper size = 8x10

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Epson Stylus Photo RX580:**

Using the QualityLogic Color Photo Suite:

- Average K (Black) Cartridge Yield: Up to 315 standard pages
- Average Cyan Cartridge Yield: Up to 362 standard pages
- Average Yellow Cartridge Yield: Up to 177 standard pages
- Average Magenta Cartridge Yield: Up to 245 standard pages
- Average Light Cyan Cartridge Yield: Up to 97 standard pages
- Average Light Magenta Cartridge Yield: Up to 114 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
T078120	K (Black)	325	315	9/12
T078220	Cyan	372	362	9/9
T078420	Yellow	181	177	18/21
T078320	Magenta	251	245	12/15
T078520	Light Cyan	99	97	26/35
T078620	Light Magenta	116	114	26/30

<b>Printer Identifier</b>	<b>HP Photosmart C3180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP92, HP93
Cartridge Type	Integral ink supply and print head
Date Tested	January 30, 2007 to February 1, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 60.54.44.0 The driver's default setting was used: Quality = Normal Paper = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C3180:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 203 standard pages
- Average Tri-color Cartridge Yield: Up to 210 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 218 standard pages
- Estimated supplemental Tri-color Cartridge Yield: Up to 1,881 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP92	K (Black)	211	203	9/12
HP93	Tri-color	216	210	9/12

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP92	K (Black)	222	218	9/9
HP93*	Tri-color	2,020	1,881	3/3

\* Denotes supplemental cartridge



<b>Printer Identifier</b>	<b>HP Photosmart C3180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP92, HP93
Cartridge Type	Integral ink supply and print head
Date Tested	February 1, 2007 to February 2, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 60.54.44.0 The following driver settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Papers

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C3180:**

Using the QualityLogic Color Photo Suite:

Average Tri-color Cartridge Yield: Up to 61 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,599 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP93	Tri-color	63	61	9/9
HP92*	K (Black)	1,643	1,599	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C4180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP98, HP93
Cartridge Type	Integral ink supply and print head
Date Tested	January 22, 2007 to January 30, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness 20lb. weight
Driver version	Driver Version = 60.54.44.0 The driver's default setting was used: Quality = Normal Paper = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C4180:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 399 standard pages
- Average Tri-color Cartridge Yield: Up to 206 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 428 standard pages
- Estimated supplemental Tri-color Cartridge Yield: Up to 2,022 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP98	K (Black)	411	399	9/12
HP93	Tri-color	213	206	15/21

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP98	K (Black)	438	428	9/9
HP93*	Tri-color	2,123	2,022	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C4180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP98, HP93
Cartridge Type	Integral ink supply and print head
Date Tested	January 25, 2007 to January 26, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 60.54.44.0 The following driver settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Papers

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C4180:**

Using the QualityLogic Color Photo Suite:

Average Tri-color Cartridge Yield: Up to 60 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 2,675 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP93	Tri-color	62	60	9/10
HP98*	K (Black)	2,869	2,675	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C4280</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	June 14, 2007 to June 18, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness 20lb. weight
Driver version	Driver Version = 12/26/2006.61.063.247.00 The driver's default setting was used: Quality = Normal Paper = Plain

**Inkjet Cartridge Yield when tested in Hewlett-Packard Photosmart C4280:**

Using the test suite defined in ISO/IEC 24712 provides the following results:  
 Average K (Black) Cartridge Yield – Up to 186 standard pages  
 Average Tri-color Cartridge Yield – Up to 166 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:  
 Average K (Black) Cartridge Yield – Up to 201 standard pages  
 Estimated supplemental Tri-color Cartridge Yield Up to 979 standard pages

Values obtained by continuous printing. Declared yield values in accordance with ISO/IEC 24711

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	K (Black)	197	186	9/9
HP75	Tri-color	171	166	9/12

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	K (Black)	204	201	9/9
HP75*	Tri-color	1,109	979	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C4280</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	June 19, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 1/2" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 12/26/2006.61.063.247.00 The following settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Paper

**Inkjet Cartridge Yield when tested in Hewlett-Packard Photosmart C4280:**

Using the QualityLogic Color Photo test suite provides the following results:

- Average Tri-color Cartridge Yield – Up to 47 standard pages
- Estimated supplemental K (Black) Cartridge Yield – Up to 1,002 standard pages

Values obtained by continuous printing. Declared yield values in accordance with QualityLogic Color Photo Yield Test Methodology

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	Tri-color	48	47	9/9
HP75*	K (Black)	1,104	1,002	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C5180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP02 C8721WN, HP02 C8771WN, HP02 C8772WN, HP02 C8773WN, HP02 C8774WN, HP02 C8775WN
Cartridge Type	Separate ink supply and print head
Date Tested	January 22, 2007 to February 2, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 60.54.44.0 The driver's default setting was used: Quality = Normal Paper = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C5180:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 682 standard pages
- Average Cyan Cartridge Yield: Up to 375 standard pages
- Average Yellow Cartridge Yield: Up to 496 standard pages
- Average Magenta Cartridge Yield: Up to 373 standard pages
- Estimated supplemental Light Cyan Cartridge Yield: Up to 7,508 standard pages
- Estimated supplemental Light Magenta Cartridge Yield: Up to 5,506 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield Up to 581 standard pages
- Estimated supplemental Cyan Cartridge Yield: Up to 1,696 standard pages
- Estimated supplemental Yellow Cartridge Yield: Up to 1,962 standard pages
- Estimated supplemental Magenta Cartridge Yield: Up to 1,312 standard pages
- Estimated supplemental Light Cyan Cartridge Yield: Up to 2,726 standard pages
- Estimated supplemental Light Magenta Cartridge Yield: Up to 1,652 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP02 C8721WN	K (Black)	713	682	9/12
HP02 C8771WN	Cyan	413	375	14/20
HP02 C8773WN	Yellow	514	496	12/18
HP02 C8772WN	Magenta	405	373	15/21
HP02 C8775WN*	Light Cyan	10,146	7,508	3/6
HP02 C8774WN*	Light Magenta	9,739	5,506	3/6

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP02 C8721WN	K (Black)	610	581	9/9
HP02 C8771WN*	Cyan	2,095	1,696	3/3
HP02 C8773WN*	Yellow	2,177	1,962	3/3
HP02 C8772WN*	Magenta	1,597	1,312	3/6
HP02 C8775WN*	Light Cyan	4,618	2,726	3/3
HP02 C8774WN*	Light Magenta	5,634	1,652	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C5180</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP02 C8721WN, HP02 C8771WN, HP02 C8772WN, HP02 C8773WN, HP02 C8774WN, HP02 C8775WN
Cartridge Type	Separate ink supply and print head
Date Tested	January 24, 2007 to February 2, 2007
EOL Criteria	This printer has Ink Out which stops printing. Whichever came first, either Ink Out or Fade, was used as the EOL criteria.
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 60.54.44.0 The following driver settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Papers

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in HP Photosmart C5180:**

Using the QualityLogic Color Photo Suite:

- Average Cyan Cartridge Yield: Up to 306 standard pages
- Average Yellow Cartridge Yield: Up to 155 standard pages
- Average Magenta Cartridge Yield: Up to 362 standard pages
- Average Light Cyan Cartridge Yield: Up to 136 standard pages
- Average Light Magenta Cartridge Yield: Up to 143 standard pages
- Estimated supplemental K (Black) Cartridge Yield: Up to 861 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP02 C8771WN	Cyan	336	306	9/12
HP02 C8773WN	Yellow	163	155	19/22
HP02 C8772WN	Magenta	388	362	9/9
HP02 C8775WN	Light Cyan	144	136	21/24
HP02 C8774WN	Light Magenta	151	143	22/25
HP02 C8721WN*	K (Black)	908	861	3/6

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Photosmart C5280</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	June 28, 2007 to July 5, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness 20lb. weight
Driver version	Driver Version = 3/15/2007,61.071.244.00 The driver's default setting was used: Quality = Normal Paper = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Hewlett-Packard Photosmart C5280 All-in-One:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield – Up to 203 standard pages
- Average Tri-color Cartridge Yield – Up to 169 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield – Up to 224 standard pages
- Estimated supplemental Tri-color Cartridge Yield Up to 1,016 standard pages

Values obtained by continuous printing. Declared yield values in accordance with ISO/IEC 24711

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	K (Black)	209	203	9/12
HP75	Tri-color	174	169	9/15

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	K (Black)	228	224	9/9
HP75*	Tri-color	1,020	1,016	3/3

\* Denotes supplemental cartridge



<b>Printer Identifier</b>	<b>HP Photosmart C5280</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	July 6, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 03/15/2007,61.071.244.00 The following settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Paper

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Hewlett-Packard Photosmart C5280 All-in-One:**

Using the QualityLogic Color Photo test suite provides the following results:  
 Average Tri-color Cartridge Yield – Up to 48 standard pages  
 Estimated supplemental K (Black) Cartridge Yield – Up to 1,154 standard pages

Values obtained by continuous printing. Declared yield values in accordance with QualityLogic Color Photo Yield Test Methodology

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP75	Tri-color	48	48	9/9
HP74*	K (Black)	1,197	1,154	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Officejet J5780</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	May 3, 2007 to May 5, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness 20lb. weight
Driver version	Driver Version = 09/01/2006.60.062.241.00 The driver's default setting was used: Quality = Normal Paper = Plain

**Inkjet Cartridge Yield when tested in Hewlett-Packard Officejet J5780:**

Using the test suite defined in ISO/IEC 24712 provides the following results:  
 Average K (Black) Cartridge Yield – Up to 188 standard pages  
 Average Tri-color Cartridge Yield – Up to 178 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:  
 Average K (Black) Cartridge Yield – Up to 198 standard pages  
 Estimated supplemental Tri-color Cartridge Yield Up to 1,529 standard pages

Values obtained by continuous printing. Declared yield values in accordance with ISO/IEC 24711

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP 74	K (Black)	195	188	9/13
HP 75	Tri-color	181	178	9/14

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	K (Black)	201	198	9/9
HP75*	Tri-color	1,700	1,529	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>HP Officejet J5780</b>
Printer Manufacturer	Hewlett-Packard
Cartridge Identifier	HP74, HP75
Cartridge Type	Integral ink supply and print head
Date Tested	May 7, 2007 to May 8, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11" photo paper
Media used	HP Premium Plus High-gloss Photo Paper (Q1785A)
Driver version	Driver Version = 09/01/2006,60.062.241.00 The following settings were used: Photo printing-with white borders Print Quality = Best Paper Type = HP Premium Plus Photo Paper

**Inkjet Cartridge Yield when tested in Hewlett-Packard Officejet J5780:**

Using the QualityLogic Color Photo test suite provides the following results:

- Average Tri-color Cartridge Yield – Up to 49 standard pages
- Estimated supplemental K (Black) Cartridge Yield – Up to 811 standard pages

Values obtained by continuous printing. Declared yield values in accordance with QualityLogic Color Photo Yield Test Methodology

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
HP74	Tri-color	51	49	9/10
HP75*	K (Black)	861	811	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Lexmark X3470</b>
Printer Manufacturer	Lexmark
Cartridge Identifier	18C0781
Cartridge Type	Integral ink supply and print head
Date Tested	February 7, 2007 to February 12, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 04/18/2006 The following default driver settings were used: Quality = Normal Type = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Lexmark X3470:**

Using the test suite defined in ISO/IEC 24712 provides the following results:  
Average Tri-color Cartridge Yield: Up to 116 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:  
Average Tri-color Cartridge Yield: Up to 230 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0781	Tri-color	125	116	9/12

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0781	Tri-color	241	230	9/9

<b>Printer Identifier</b>	<b>Lexmark X3470</b>
Printer Manufacturer	Lexmark
Cartridge Identifier	18C0781
Cartridge Type	Integral ink supply and print head
Date Tested	February 12, 2007 to February 14, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6" borderless photo on 8 ½" x 11 "photo paper
Media used	21G1740, Premium Photo Paper
Driver version	Driver Version = 04/18/2006 The following driver settings were used: Quality = Photo Type = Lexmark Premium Photo Paper

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Lexmark X3470:**

Using the QualityLogic Color Photo Suite:

Average Tri-color Cartridge Yield: Up to 77 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0781	Tri-color	81	77	9/10

<b>Printer Identifier</b>	<b>Lexmark X8350</b>
Printer Manufacturer	Lexmark
Cartridge Identifier	18C0032, 18C0033
Cartridge Type	Integral ink supply and print head
Date Tested	January 30, 2007 to February 5, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	Letter
Media used	Xerox Business 4200, 92 Brightness, 20lb. weight
Driver version	Driver Version = 03/27/2006, 1.95.2.20 The following default driver settings were used: Quality = Normal Type = Plain

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Lexmark X8350:**

Using the test suite defined in ISO/IEC 24712 provides the following results:

- Average K (Black) Cartridge Yield: Up to 291 standard pages
- Average Tri-color Cartridge Yield: Up to 264 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results:

- Average K (Black) Cartridge Yield: Up to 285 standard pages
- Estimated supplemental Tri-color Cartridge Yield: Up to 2,192 standard pages

Values obtained by continuous printing. Declared yield value in accordance with ISO/IEC 24711.

**ISO 24712**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0032	K (Black)	304	291	9/13
18C0033	Tri-color	278	264	9/15

**ISO 19752**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0032	K (Black)	295	285	9/9
18C0033*	Tri-color	2,410	2,192	3/3

\* Denotes supplemental cartridge

<b>Printer Identifier</b>	<b>Lexmark X8350</b>
Printer Manufacturer	Lexmark
Cartridge Identifier	18C0032, 18C0033
Cartridge Type	Integral ink supply and print head
Date Tested	February 6, 2007 to February 8, 2007
EOL Criteria	Fade
Print mode used	Continuous
Paper Size	4" x 6½" borderless photo on 8½" x 11" photo paper
Media used	21G1740, Premium Photo Paper
Driver version	Driver Version = 03/27/2006, 1.95.2.20 The following driver settings were used: Print Quality = Best Paper Type = Lexmark Premium Photo Paper

**Declaration of Yield**

**Inkjet Cartridge Yield when tested in Lexmark X8350:**

Using the QualityLogic Color Photo Suite:

Average Tri-color Cartridge Yield: Up to 68 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 3,744 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

**QualityLogic Color Photo Suite**

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
18C0033	Tri-color	73	68	9/9
18C0032*	K (Black)	4,641	3,744	3/3

\* Denotes supplemental cartridge

## Additional Kodak Papers Tested

In addition to testing Kodak's Ultra Premium Photo Paper, Kodak Premium Photo Paper and Glossy Photo Paper were tested on the Kodak EASYSHARE 5500, 5300 and 5100 to verify the yield claims of their Photo Value Packs. All test parameters described on Page 12 of this report were the same with the exception of media used and date tested (highlighted below).

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Ultra Premium Photo Paper</b>
<b>Date Tested</b>	<b>July 19, 2007 to July 20, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5500:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 166 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,472 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	166	9/9
3J8965*	K (Black)	1,700	1,472	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Premium Photo Paper</b>
<b>Date Tested</b>	<b>July 24, 2007 to July 31, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5500:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 176 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,703 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	177	176	9/9
3J8965*	K (Black)	1,816	1,703	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Glossy Photo Paper</b>
<b>Date Tested</b>	<b>July 23, 2007 to July 27, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5500:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 267 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 2,624 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	267	267	9/9
3J8965*	K (Black)	2,753	2,624	3/3

\*Denotes supplemental cartridge



**Declaration of Yield**

<b>Media used</b>	<b>Kodak Ultra Premium Photo Paper</b>
<b>Date Tested</b>	<b>May 3, 2007 to May 4, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5300:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 167 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,663 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	167	9/9
3J8965*	K (Black)	1,911	1,663	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Premium Photo Paper</b>
<b>Date Tested</b>	<b>April 20, 2007 to April 22, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5300:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 176 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,673 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	177	176	9/9
3J8965*	K (Black)	1,812	1,673	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Glossy Photo Paper</b>
<b>Date Tested</b>	<b>April 22, 2007 to April 26, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5300:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 265 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 2,358 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	266	265	9/9
3J8965*	K (Black)	2,711	2,358	3/3

\*Denotes supplemental cartridge

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Ultra Premium Photo Paper</b>
<b>Date Tested</b>	<b>May 4, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5100:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 167 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,695 standard pages

Values obtained by continuous printing. Declared yield value in accordance with QualityLogic Color Photo Cartridge Yield Test Methodology.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	167	167	9/9
3J8965*	K (Black)	1,730	1,695	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Premium Photo Paper</b>
<b>Date Tested</b>	<b>May 7, 2007 to May 8, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5100:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 177 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 1,499 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	178	177	9/9
3J8965*	K (Black)	1,678	1,499	3/3

**Declaration of Yield**

<b>Media used</b>	<b>Kodak Glossy Photo Paper</b>
<b>Date Tested</b>	<b>May 8, 2007 to May 9, 2007</b>

**Inkjet Cartridge Yield when tested in Kodak EASYSHARE 5100:**

Using the QualityLogic Color Photo Suite:

Average Color Cartridge Yield: Up to 268 standard pages

Estimated supplemental K (Black) Cartridge Yield: Up to 2,552 standard pages

Values obtained by continuous printing.

Cartridge Identifier	Color	Average (pages)	90% Lower Confidence (pages)	Number used in calculations/test
3J8966	Color	270	268	9/9
3J8965*	K (Black)	2,996	2,552	3/3

\*Denotes supplemental cartridge

## Appendix 1 – Test Pages

### ISO/ ISO/IEC 24712 Test Suite



### ISO/IEC 19752 Test Page



### QualityLogic Photo Test Suite

