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Summary and Scope of Analysis

For more than 22 years, QualityLogic Inc. has been a premier developer and provider of essential testing solutions to companies that design, build, or purchase printers and printing technology. Our products and services help our customers understand how the products they make or buy conform to specifications, or compare to reference implementations or competing products. We are active members of international standards organizations including ISO and Ecma International, and provide testing assistance to leading technology publications who publish printer reviews.

At the request of Eastman Kodak Company, QualityLogic calculated and compared the Cost of Ink Per Page (CoIPP) of the ESP-3 and ESP-5 All-in-One Printers to 5 competing printers selected by Kodak. Kodak's intent was to select printers with significant market share from leading manufacturers.

Monochrome and color cartridge yields for all printers were determined following ISO yield standards, and photo yields were determined using QualityLogic's photo yield methodology*.

Cartridge prices used in this Cost of Ink Per Page analysis were researched and provided to QualityLogic by Kodak as of December 2008. For this report, standard as-shipped-in-box cartridges for Kodak were used while all other printers used High Yield cartridges. Cartridge pricing was based on single quantity pricing (i.e no multi-packs, combo packs, value packs or special promotions).

Although there are many factors in total cost of ownership, Cost of Ink Per Page (CoIPP) is an important factor when evaluating total cost of ownership with printer systems.

Cost of Ink Per Page was calculated by dividing these cartridge prices by the yield of each cartridge in the test.

* All references of 'photo' in this report refer to 4x6 inch (approximately 10 x 15 cm) borderless photos.

The following printers and corresponding ink cartridges were included in this Cost of Ink Per Page analysis:

| Company | Printer | Cartridges |
|---------------------|--|--|
| Kodak | ESP-3 ESP-5 | Black Ink Cartridge 10, Color Ink Cartridge 10 Black Ink Cartridge 10, Color Ink Cartridge 10 |
| Epson | Artisan 800 RX580 | T0981, T0982, T0983, T0984, T0985, T0986 T0771, T0772, T0773, T0774, T0775, T0776 |
| Hewlett- Packard | Photosmart C4280 Photosmart C5280 Photosmart C6380 | HP74XL, HP75XL HP74XL, HP75XL HP 564XL - CB316WN, CB317WN, CB318WN, CB319WN, CB320WN |
| Lexmark | X6650 | 36XLA, 37XLA |

Cost of Ink Per Page

The following charts summarize the Cost of Ink Per Page for the printers tested using cartridge prices from The United States. There are three charts presented: separate charts for monochrome, color and photo printing. Details of how these costs were calculated can be found in the "Methodology for Calculation of Cost of Ink Per Page" following these graphs.



United States: Mono - Cost of Ink Per Page



United States: Color - Cost of Ink Per Page



United States: Photo - Cost of Ink Per Page

Methodology for Calculation of Cost of Ink Per Page

The following is a step-by-step outline of how QualityLogic, using standardized yield testing methodologies and standard pricing information provided by Kodak, executed this 'Cost of Ink Per Page' test for Kodak.

A. QualityLogic Yield Declarations

Yield testing is a process by which the target printers are operated with their ink or toner cartridges to exhaust the amount of ink/toner, and then pages printed are counted to determine the number of pages each cartridge yields. The requirements and operating conditions of such testing are determined by a standard set of testing criteria that will provide an objective and repeatable result.

QualityLogic is a leader worldwide in providing yield testing services. We support and follow the ISO (International Standards Organization) standards for mono and color testing. Use of using the ISO standards for yield testing is also supported by leading manufacturers, including Canon, Dell, Epson, HP, IBM, Kodak, Lexmark, Oki Data, Pitney Bowes, Ricoh, Toshiba, Xerox, and others.

ISO is currently working on a standard for photo ink. Until this standard is released, QualityLogic uses a methodology we developed that closely follows the current ISO standards approach.

Key provisions of these standards include:

- Standard test suites
- Minimum of nine cartridges across three printers representative of products in open market
- Clear, objective end-of-life criteria
- Controlled test environment temperature, continuous printing
- Yield reporting requirement well defined

The following pages contain tables that relate to yield testing results. The tables show the number of pages per cartridge that can be expected with 90 percent confidence based on our testing. Numbers in black indicate primary cartridges – any cartridge where a minimum of nine cartridges across three printers could be exhausted. Supplemental cartridges are indicated by red numbers and represent those cartridges that are secondary to the purpose of the test. Although supplemental cartridges are not the key focus in the tests as shown, they are included in the test reports to ensure we get a complete understanding of the ink being used.

Generally, the 'primary' cartridges for each category of testing are:

- Mono ink the black cartridge
- Color ink all full density cartridges containing cyan, magenta, or yellow
- Photo ink color cartridges or others where nine cartridges were exhausted

QualityLogic performed yield tests and provided yield test reports for all cartridges for models listed below (with some of the same models also available in Europe and in North America). Each table has abbreviated sub-headings that represent the specific ink cartridge types as follows:

CMY = A single cartridge containing cyan, magenta and

- yellow *
- C = Cyan M = Magenta
- Y = Yellow
- K1 = Black
- K2 = A second black cartridge
- LC = Light cyan
- LM = Light magenta

These yield numbers apply to printers included in this analysis. Yields of primary and supplemental cartridges are reported, and the details of these results can be found in Appendix C.

| | Mono Ink yield | | | | | | | | | |
|-------------------|----------------|------|------|-------|-----|-------|------|------|--|--|
| | СМҮ | С | м | Y | К1 | К2 | LC | LM | | |
| Kodak ESP-3 | 4313 | | | | 555 | | | | | |
| Kodak ESP-5 | 4395 | | | | 551 | | | | | |
| Epson Artisan 800 | | 3232 | 3239 | 10597 | 608 | | 3103 | 3816 | | |
| Epson RX580 | | 4924 | 6192 | 5150 | 547 | | 3734 | 3660 | | |
| HP C4280 | 3390 | | | | 725 | | | | | |
| HP C5280 | 3216 | | | | 793 | | | | | |
| HP C6380 | | 7006 | 8692 | 8441 | 827 | 10405 | | | | |
| Lexmark X6650 | 105425 | | | | 580 | | | | | |

Note: Kodak's color cartridge includes black and protective inks.

| | | Color Ink yield | | | | | | | | | |
|-------------------|-----|-----------------|-----|------|-----|------|-----|------|--|--|--|
| | СМҮ | С | М | Y | К1 | К2 | LC | LM | | | |
| Kodak ESP-3 | 379 | | | | 340 | | | | | | |
| Kodak ESP-5 | 379 | | | | 342 | | | | | | |
| Epson Artisan 800 | | 1547 | 725 | 1085 | 577 | | 530 | 1060 | | | |
| Epson RX580 | | 1741 | 795 | 797 | 523 | | 730 | 1076 | | | |
| HP C4280 | 516 | | | | 691 | | | | | | |
| HP C5280 | 491 | | | | 689 | | | | | | |
| HP C6380 | | 781 | 813 | 680 | 777 | 3390 | | | | | |
| Lexmark X6650 | 550 | | | | 571 | | | | | | |

Note: Kodak's color cartridge includes black and protective inks.

| | | Photo Ink yield | | | | | | | | | |
|-------------------|-----|-----------------|-----|-----|-------|-----|-----|-----|--|--|--|
| | СМҮ | С | м | Y | К1 | К2 | LC | LM | | | |
| Kodak ESP-3 | 173 | | | | 1509 | | | | | | |
| Kodak ESP-5 | 172 | | | | 1371 | | | | | | |
| Epson Artisan 800 | | 754 | 557 | 375 | 589 | | 158 | 177 | | | |
| Epson RX580 | | 657 | 427 | 302 | 552 | | 161 | 189 | | | |
| HP C4280 | 145 | | | | 6014 | | | | | | |
| HP C5280 | 139 | | | | 5190 | | | | | | |
| HP C6380 | | 261 | 456 | 309 | 5532 | 255 | | | | | |
| Lexmark X6650 | 110 | | | | 12740 | | | | | | |

Note: Kodak's color cartridge includes black and protective inks.

B. Ink Cartridge Pricing

Cartridge prices used in this Cost of Ink Per Page analysis were researched and provided to QualityLogic by Kodak as of December 2008. For this report, standard as-shipped-in-box cartridges for Kodak were used while all other printers used High Yield cartridges. Cartridge pricing was based on single quantity pricing (i.e no multipacks, combo packs, value packs or special promotions). Below is the summary of the ink cartridges and their individual prices.

| | | Ink Cartridge Pricing | | | | | | | | | |
|-------------------|---------|-----------------------|---------|---------|---------|---------|---------|---------|--|--|--|
| | СМҮ | С | м | Y | К1 | K2 | LC | LM | | | |
| Kodak ESP-3 | \$14.99 | | | | \$9.99 | | | | | | |
| Kodak ESP-5 | \$14.99 | | | | \$9.99 | | | | | | |
| Epson Artisan 800 | | \$15.99 | \$15.99 | \$15.99 | \$17.09 | | \$15.99 | \$15.99 | | | |
| Epson RX580 | | \$19.99 | \$19.99 | \$19.99 | \$19.99 | | \$19.99 | \$19.99 | | | |
| HP C4280 | \$37.99 | | | | \$31.99 | | | | | | |
| HP C5280 | \$37.99 | | | | \$31.99 | | | | | | |
| HP C6380 | | \$14.99 | \$14.99 | \$14.99 | \$28.99 | \$14.99 | | | | | |
| Lexmark X6650 | \$37.99 | | | | \$30.99 | | | | | | |

Source: Kodak

C. Cost of Ink Per Page – Per Cartridge

QualityLogic then calculated the Cost of Ink Per Page per cartridge by dividing the price of each cartridge (as defined by Kodak's cartridge price, noted above in Section B) by the yield for each cartridge in each model (as defined above in Section A). This calculation results in the Cost of Ink Per Page per cartridge for each test mode: mono, color and photo.

| Price per cartridge | = | С |
|---------------------------------------|---|---|
| Ink yield (in number of pages/photos) | | Ρ |

Cost of Ink Per Page – per cartridge

| | Mono Ink Cost | | | | | | | | |
|-------------------|---------------|---------|---------|---------|---------|---------|---------|---------|--|
| | СМҮ | С | м | Y | К1 | K2 | LC | LM | |
| Kodak ESP-3 | \$0.003 | | | | \$0.018 | | | | |
| Kodak ESP-5 | \$0.003 | | | | \$0.018 | | | | |
| Epson Artisan 800 | | \$0.005 | \$0.005 | \$0.002 | \$0.028 | | \$0.005 | \$0.004 | |
| Epson RX580 | | \$0.004 | \$0.003 | \$0.004 | \$0.037 | | \$0.005 | \$0.005 | |
| HP C4280 | \$0.011 | | | | \$0.044 | | | | |
| HP C5280 | \$0.012 | | | | \$0.040 | | | | |
| HP C6380 | | \$0.002 | \$0.002 | \$0.002 | \$0.035 | \$0.001 | | | |
| Lexmark X6650 | \$0.000 | | | | \$0.053 | | | | |

Mono Cost of Ink Per Individual Cartridge per Page

Color Cost of Ink Per Individual Cartridge per Page

| | Color Ink cost | | | | | | | | |
|-------------------|----------------|---------|---------|---------|---------|---------|---------|---------|--|
| | СМҮ | С | М | Y | К1 | K2 | LC | LM | |
| Kodak ESP-3 | \$0.040 | | | | \$0.029 | | | | |
| Kodak ESP-5 | \$0.040 | | | | \$0.029 | | | | |
| Epson Artisan 800 | | \$0.010 | \$0.022 | \$0.015 | \$0.030 | | \$0.030 | \$0.015 | |
| Epson RX580 | | \$0.011 | \$0.025 | \$0.025 | \$0.038 | | \$0.027 | \$0.019 | |
| HP C4280 | \$0.074 | | | | \$0.046 | | | | |
| HP C5280 | \$0.077 | | | | \$0.046 | | | | |
| HP C6380 | | \$0.019 | \$0.018 | \$0.022 | \$0.037 | \$0.004 | | | |
| Lexmark X6650 | \$0.069 | | | | \$0.054 | | | | |

| | Photo Ink Cost | | | | | | | | | |
|-------------------|----------------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | СМҮ | С | М | Y | K1 | K2 | LC | LM | | |
| Kodak ESP-3 | \$0.087 | | | | \$0.007 | | | | | |
| Kodak ESP-5 | \$0.087 | | | | \$0.007 | | | | | |
| Epson Artisan 800 | | \$0.021 | \$0.029 | \$0.043 | \$0.029 | | \$0.101 | \$0.090 | | |
| Epson RX580 | | \$0.030 | \$0.047 | \$0.066 | \$0.036 | | \$0.124 | \$0.106 | | |
| HP C4280 | \$0.262 | | | | \$0.005 | | | | | |
| HP C5280 | \$0.273 | | | | \$0.006 | | | | | |
| HP C6380 | | \$0.057 | \$0.033 | \$0.049 | \$0.005 | \$0.059 | | | | |
| Lexmark X6650 | \$0.345 | | | | \$0.002 | | | | | |

Photo Cost of Ink Per Individual Cartridge per Page

D. Cost of Ink Per Page

Cost of Ink Per Page for each printer is calculated by summing the Cost of Ink Per Page per cartridge for each cartridge tested in a given printer model (as determined above in Section C).

Cost of Ink Per Page = CMY + C + M + Y + K1 + K2 + LC + LM

The Cost of Ink Per Page per printer is reflected below. Note that, due to rounding, the total CoIPP may not match the individual ink cartridge costs.

| | | Mono Ink Cost | | | | | | | | |
|-------------------|---------|---------------|---------|---------|---------|---------|---------|---------|---------|--|
| | СМҮ | С | М | Y | K1 | K2 | LC | LM | CoIPP | |
| Kodak ESP-3 | \$0.003 | | | | \$0.018 | | | | \$0.021 | |
| Kodak ESP-5 | \$0.003 | | | | \$0.018 | | | | \$0.022 | |
| Epson Artisan 800 | | \$0.005 | \$0.005 | \$0.002 | \$0.028 | | \$0.005 | \$0.004 | \$0.049 | |
| Epson RX580 | | \$0.004 | \$0.003 | \$0.004 | \$0.037 | | \$0.005 | \$0.005 | \$0.059 | |
| HP C4280 | \$0.011 | | | | \$0.044 | | | | \$0.055 | |
| HP C5280 | \$0.012 | | | | \$0.040 | | | | \$0.052 | |
| HP C6380 | | \$0.002 | \$0.002 | \$0.002 | \$0.035 | \$0.001 | | | \$0.042 | |
| Lexmark X6650 | \$0.000 | | | | \$0.053 | | | | \$0.054 | |

| | | Color Ink cost | | | | | Color | | |
|-------------------|---------|----------------|---------|---------|---------|---------|---------|---------|---------|
| | СМҮ | С | м | Y | К1 | K2 | LC | LM | CoIPP |
| Kodak ESP-3 | \$0.040 | | | | \$0.029 | | | | \$0.069 |
| Kodak ESP-5 | \$0.040 | | | | \$0.029 | | | | \$0.069 |
| Epson Artisan 800 | | \$0.010 | \$0.022 | \$0.015 | \$0.030 | | \$0.030 | \$0.015 | \$0.122 |
| Epson RX580 | | \$0.011 | \$0.025 | \$0.025 | \$0.038 | | \$0.027 | \$0.019 | \$0.146 |
| HP C4280 | \$0.074 | | | | \$0.046 | | | | \$0.120 |
| HP C5280 | \$0.077 | | | | \$0.046 | | | | \$0.124 |
| HP C6380 | | \$0.019 | \$0.018 | \$0.022 | \$0.037 | \$0.004 | | | \$0.101 |
| Lexmark X6650 | \$0.069 | | | | \$0.054 | | | | \$0.123 |

Color Cost of Ink Per Individual Cartridge and Total Cost of Ink Per Page

Photo Cost of Ink Per Individual Cartridge and Total Cost of Ink Per Page

| | | Photo Ink Cost | | | | | | Photo | |
|-------------------|---------|----------------|---------|---------|---------|---------|---------|---------|---------|
| | СМҮ | С | М | Y | K1 | K2 | LC | LM | CoIPP |
| Kodak ESP-3 | \$0.087 | | | | \$0.007 | | | | \$0.093 |
| Kodak ESP-5 | \$0.087 | | | | \$0.007 | | | | \$0.094 |
| Epson Artisan 800 | | \$0.021 | \$0.029 | \$0.043 | \$0.029 | | \$0.101 | \$0.090 | \$0.313 |
| Epson RX580 | | \$0.030 | \$0.047 | \$0.066 | \$0.036 | | \$0.124 | \$0.106 | \$0.410 |
| HP C4280 | \$0.262 | | | | \$0.005 | | | | \$0.267 |
| HP C5280 | \$0.273 | | | | \$0.006 | | | | \$0.279 |
| HP C6380 | | \$0.057 | \$0.033 | \$0.049 | \$0.005 | \$0.059 | | | \$0.203 |
| Lexmark X6650 | \$0.345 | | | | \$0.002 | | | | \$0.348 |

Contact Information

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Appendix A: QualityLogic Declared Yield Test Results

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

ISO Test Results - Summary

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

| Number of Printers Tested | Minimum of three |
|---|---|
| | |
| Number of Cartridges Tested | Minimum of nine of each color |
| Temperature | Testing room average $23.0^{\circ}C \pm 2^{\circ}C$ with all running average temperatures between $20.0^{\circ}C$ and $26.0^{\circ}C$ |
| Humidity | Testing room average 50% \pm 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 three 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. |

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 | A4 or 8 ¹ / ₂ " x 11" (see individual test reports) |
| 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 except 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 |

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 | A4 or 8 ¹ / ₂ " by 11" (see individual test reports) |
| 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 |

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. A4 or 8 ½" x 11" papers were used to print a borderless 4" x 6" (approximately 10 x 15 cm) photo. (See individual test reports) |
| 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 exhausted nine or more cartridges during the execution of nine of the above cartridges 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 |

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

| Printer Identifier | ESP-3 All-in-One Printer | | |
|----------------------|--|--|--|
| Printer Manufacturer | Kodak | | |
| Cartridge Identifier | Black Ink Cartridge 10 & Color Ink Cartridge 10 | | |
| Cartridge Type | Separate ink supply and print head | | |
| Date Tested | September 10, 2008 to September 22, 2008 | | |
| 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=07/17/2008, 2.07.0151.0 | | |
| | Color Ink test: | | |
| | The driver's default settings were used. | | |
| | Mono Ink Test: | | |
| | Print color as = Changed to Black and White from Color | | |

Declaration of Yield

Inkjet Cartridge Yield when tested in Kodak ESP-3 All-in-One Printer:

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 340 standard pages Average Color Cartridge Yield – Up to 379 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 555 standard pages Estimated supplemental Color Cartridge Yield – Up to 4,313 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 |
|------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Black Ink Cartridge 10 | K (Black) | 345 | 340 | 9/12 |
| Color Ink Cartridge 10 | Color | 386 | 379 | 9/9 |

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|-------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Black Ink Cartridge 10 | K (Black) | 557 | 555 | 24/24 |
| Color Ink Cartridge 10* | Color | 4,758 | 4,313 | 3/3 |

| Printer Identifier | ESP-3 All-in-One Printer |
|----------------------|--|
| Printer Manufacturer | Kodak |
| Cartridge Identifier | Black Ink Cartridge 10 & Color Ink Cartridge 10 |
| Cartridge Type | Separate ink supply and print head |
| Date Tested | September 10, 2008 to September 22, 2008 |
| 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 | KODAK Ultra Premium Photo Paper High Gloss |
| Driver version | Driver Version=07/17/2008, 2.07.0151.0 |
| | The driver's default settings were used. |

Inkjet Cartridge Yield when tested in Kodak ESP-3 All-in-One Printer:

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

Average Color Cartridge Yield – Up to 173 standard pages

Estimated supplemental K (Black) Cartridge Yield - Up to 1,509 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 |
|-------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Color Ink Cartridge 10 | Color | 173 | 173 | 9/9 |
| Black Ink Cartridge 10* | K (Black) | 1,719 | 1,509 | 3/3 |

* Denotes supplemental cartridge

| Printer Identifier | ESP-5 All-in-One Printer | | |
|----------------------|--|--|--|
| Printer Manufacturer | Kodak | | |
| Cartridge Identifier | Black Ink Cartridge 10 & Color Ink Cartridge 10 | | |
| Cartridge Type | Separate ink supply and print head | | |
| Date Tested | August 25, 2008 to September 4, 2008 | | |
| 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=07/17/2008, 2.07.0151.0 | | |
| | Color Ink test: The driver's default settings were used. Mono Ink Test: | | |
| | Print color as = Changed to Black and White from Color | | |

Inkjet Cartridge Yield when tested in Kodak ESP-5 All-in-One Printer:

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 379 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 551 standard pages Estimated supplemental Color Cartridge Yield – Up to 4,395 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 |
|------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Black Ink Cartridge 10 | K (Black) | 347 | 342 | 9/12 |
| Color Ink Cartridge 10 | Color | 387 | 379 | 9/9 |

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|-------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Black Ink Cartridge 10 | K (Black) | 552 | 551 | 24/24 |
| Color Ink Cartridge 10* | Color | 4,415 | 4,395 | 3/3 |

| Printer Identifier | ESP-5 All-in-One Printer | | | | |
|----------------------|--|--|--|--|--|
| Printer Manufacturer | Kodak | | | | |
| Cartridge Identifier | Black Ink Cartridge 10 & Color Ink Cartridge 10 | | | | |
| Cartridge Type | Separate ink supply and print head | | | | |
| Date Tested | September 4, 2008 to September 8, 2008 | | | | |
| 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 | KODAK Ultra Premium Photo Paper High Gloss | | | | |
| Driver version | Driver Version=07/17/2008, 2.07.0151.0 | | | | |
| | The driver's default settings were used. | | | | |

Inkjet Cartridge Yield when tested in Kodak ESP-5 All-in-One Printer:

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

Average Color Cartridge Yield – Up to 172 standard pages

Estimated supplemental K (Black) Cartridge Yield – Up to 1,371 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 |
|-------------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| Color Ink Cartridge 10 | Color | 173 | 172 | 9/9 |
| Black Ink Cartridge 10* | K (Black) | 1,677 | 1,371 | 3/3 |

* Denotes supplemental cartridge

| Printer Identifier | Epson Artisan 800 |
|----------------------|--|
| Printer Manufacturer | Epson |
| Cartridge Identifier | T0981, T0982, T0983, T0984, T0985, T0986 |
| Cartridge Type | Separate ink supply and print head |
| Date Tested | October 10, 2008 to October 17, 2008 |
| 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 = Epson Color Printing System 6.62 |

Inkjet Cartridge Yield when tested in Epson Artisan 800:

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 577 standard pages Average Cyan Cartridge Yield – Up to 1,547 standard pages Average Yellow Cartridge Yield – Up to 1,085 standard pages Average Magenta Cartridge Yield – Up to 725 standard pages Average supplemental Light Cyan Cartridge Yield – Up to 530 standard pages Average supplemental Light Magenta Cartridge Yield – Up to 1,060 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 608 standard pages Estimated supplemental Cyan Cartridge Yield – Up to 3,232 standard pages Estimated supplemental Yellow Cartridge Yield – Up to 10,597 standard pages Estimated supplemental Magenta Cartridge Yield – Up to 3,239 standard pages Estimated supplemental Light Cyan Cartridge Yield – Up to 3,103 standard pages Estimated supplemental Light Magenta Cartridge Yield – Up to 3,816 standard pages

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

| 150 24712 | | | | | |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|--|
| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test | |
| T0981 | K (Black) | 582 | 577 | 23/26 | |
| T0982 | Cyan | 1,569 | 1,547 | 9/9 | |
| T0984 | Yellow | 1,096 | 1,085 | 12/15 | |
| T0983 | Magenta | 735 | 725 | 18/21 | |
| T0985* | Light Cyan | 534 | 530 | 25/28 | |
| T0986* | Light Magenta | 1,073 | 1,060 | 12/15 | |
| | | | | | |

ISO 24712

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|
| T0981 | K (Black) | 613 | 608 | 9/9 |
| T0982* | Cyan | 3,405 | 3,232 | 3/3 |
| T0984* | Yellow | 12,623 | 10,597 | 3/3 |
| T0983* | Magenta | 3,528 | 3,239 | 3/3 |
| T0985* | Light Cyan | 3,160 | 3,103 | 3/3 |
| T0986* | Light Magenta | 4,047 | 3,816 | 3/3 |

* Denotes supplemental cartridge

| Printer Identifier | Epson Artisan 800 |
|----------------------|---|
| Printer Manufacturer | Epson |
| Cartridge Identifier | T0981, T0982, T0983, T0984, T0985, T0986 |
| Cartridge Type | Separate ink supply and print head |
| Date Tested | October 20, 2008 to October 29, 2008 |
| 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 | Epson Ultra Premium Photo Paper, Glossy (S042175) |
| Driver version | Driver Version = Epson Color Printing System 6.62 The following driver settings were changed from default: Paper and Quality Options = Changed to Ultra Premium Photo Paper Glossy from Plain Paper / Bright White Paper Changed to Photo RPM (Max dpi) from Normal |

Inkjet Cartridge Yield when tested in Epson Artisan 800:

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

Average Cyan Cartridge Yield – Up to 754 standard pages

Average Magenta Cartridge Yield – Up to 557 standard pages

Average Yellow Cartridge Yield – Up to 375 standard pages

Average Light Cyan Cartridge Yield – Up to 158 standard pages

Average Light Magenta Cartridge Yield – Up to 177 standard pages

Average K (Black) Cartridge Yield – Up to 589 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 |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|
| T0982 | Cyan | 765 | 754 | 9/9 |
| T0984 | Yellow | 379 | 375 | 17/20 |
| T0983 | Magenta | 564 | 557 | 12/15 |
| T0985 | Light Cyan | 159 | 158 | 42/45 |
| T0986 | Light Magenta | 177 | 177 | 38/41 |
| T0981 | K (Black) | 594 | 589 | 9/12 |

QualityLogic Color Photo Suite

| Printer Identifier | Epson RX580 Photo All-in-One |
|----------------------|--|
| Printer Manufacturer | Epson |
| Cartridge Identifier | T0771, T0772, T0773, T0774, T0775, T0776 |
| Cartridge Type | Separate ink supply and print head |
| Date Tested | August 6, 2007 to August 22, 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 | DriverVer=06/08/2006, 6.00.00.00 |

Inkjet Cartridge Yield when tested in Epson RX580 Photo All-in-One:

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 523 standard pages Average Cyan Cartridge Yield – Up to 1,741 standard pages Average Yellow Cartridge Yield – Up to 797 standard pages Average Magenta Cartridge Yield – Up to 795 standard pages Average supplemental Light Cyan Cartridge Yield – Up to 730 standard pages Average supplemental Light Magenta Cartridge Yield – Up to 1,076 standard pages.

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 547 standard pages Estimated supplemental Cyan Cartridge Yield – Up to 4,924 standard pages Estimated supplemental Yellow Cartridge Yield – Up to 5,150 standard pages Estimated supplemental Magenta Cartridge Yield – Up to 6,192 standard pages Estimated supplemental Light Cyan Cartridge Yield – Up to 3,734 standard pages Estimated supplemental Light Magenta Cartridge Yield – Up to 3,660 standard pages.

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

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|
| T077120 | K (Black) | 531 | 523 | 30/36 |
| T077220 | Cyan | 1,822 | 1,741 | 9/12 |
| T077420 | Yellow | 814 | 797 | 18/24 |
| T077320 | Magenta | 813 | 795 | 18/24 |
| T077520* | Light Cyan | 744 | 730 | 21/27 |
| T077620* | Light Magenta | 1,105 | 1,076 | 14/20 |

ISO 24712

ISO 19752

| 150 19752 | | | | | |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|--|
| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test | |
| T077120 | K (Black) | 559 | 547 | 9/9 | |
| T077220* | Cyan | 5,619 | 4,924 | 3/3 | |
| T077420* | Yellow | 5,935 | 5,150 | 3/3 | |
| T077320* | Magenta | 7,407 | 6,192 | 3/3 | |
| T077520* | Light Cyan | 4,260 | 3,734 | 3/3 | |
| T077620* | Light Magenta | 4,218 | 3,660 | 3/3 | |

* Denotes supplemental cartridge

| Printer Identifier | Epson RX580 Photo All-in-One | | | |
|----------------------|--|--|--|--|
| Printer Manufacturer | Epson | | | |
| Cartridge Identifier | T0771, T0772, T0773, T0774, T0775, T0776 | | | |
| Cartridge Type | Separate ink supply and print head | | | |
| Date Tested | August 23, 2007 to September 11, 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 | Epson Ultra Premium Photo Paper, Glossy (S042175) | | | |
| Driver version | DriverVer=06/08/2006, 6.00.00.00 | | | |
| | The following settings were used: | | | |
| | Quality Option = Best Photo | | | |
| | Paper Type = Premium Photo Paper Glossy | | | |
| | Paper size = 8x10 | | | |

Inkjet Cartridge Yield when tested in Epson RX580 Photo All-in-One:

Using the QualityLogic Color Photo test suite provides the following results: Average K (Black) Cartridge Yield – Up to 552 standard pages Average Cyan Cartridge Yield – Up to 657 standard pages Average Yellow Cartridge Yield – Up to 302 standard pages Average Magenta Cartridge Yield – Up to 427 standard pages Average Light Cyan Cartridge Yield – Up to 161 standard pages Average Light Magenta Cartridge Yield – Up to 189 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 |
|----------------------|---------------|-----------------|---------------------------------|-------------------------------------|
| T077120 | K (Black) | 568 | 552 | 9/12 |
| T077220 | Cyan | 675 | 657 | 9/9 |
| T077420 | Yellow | 310 | 302 | 18/21 |
| T077320 | Magenta | 438 | 427 | 12/15 |
| T077520 | Light Cyan | 166 | 161 | 36/38 |
| T077620 | Light Magenta | 195 | 189 | 30/33 |

QualityLogic Color Photo Suite

| Printer Identifier | HP Photosmart C4280 |
|----------------------|---|
| Printer Manufacturer | Hewlett-Packard |
| Cartridge Identifier | HP74XL, HP75XL |
| Cartridge Type | Integral ink supply and print head |
| Date Tested | May 30, 2007 to June 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 = 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 All-in-One:

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 691 standard pages Average Tri-color Cartridge Yield – Up to 516 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 725 standard pages Estimated supplemental Tri-color Cartridge Yield Up to 3,390 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 |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| HP74XL | K (Black) | 702 | 691 | 9/12 |
| HP75XL | Tri-color | 532 | 516 | 9/15 |

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | calculations/test |
|----------------------|-----------|-----------------|---------------------------------|-------------------|
| HP74XL | K (Black) | 763 | 725 | 9/9 |
| HP75XL * | Tri-color | 3,511 | 3,390 | 3/3 |

| Printer Identifier | HP Photosmart C4280 | | |
|----------------------|--|--|--|
| Printer Manufacturer | Hewlett-Packard | | |
| Cartridge Identifier | HP74XL, HP75XL | | |
| Cartridge Type | Integral ink supply and print head | | |
| Date Tested | June 12, 2007 to June 14, 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 All-in-One:

Using the QualityLogic Color Photo test suite provides the following results: Average Tri-color Cartridge Yield – Up to 145 standard pages

Estimated supplemental K (Black) Cartridge Yield – Up to 6,014 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 |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| HP75XL | Tri-color | 148 | 145 | 9/9 |
| HP74XL * | K (Black) | 6,407 | 6,014 | 3/3 |

* Denotes supplemental cartridge

| Printer Identifier | HP Photosmart C5280 |
|----------------------|---|
| Printer Manufacturer | Hewlett-Packard |
| Cartridge Identifier | HP74XL, HP75XL |
| Cartridge Type | Integral ink supply and print head |
| Date Tested | July 6, 2007 to July 20, 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 |

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

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 689 standard pages Average Tri-color Cartridge Yield – Up to 491 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 793 standard pages Estimated supplemental Tri-color Cartridge Yield Up to 3,216 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 |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| HP74XL | K (Black) | 713 | 689 | 9/10 |
| HP75XL | Tri-color | 505 | 491 | 12/15 |

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| HP74XL | K (Black) | 816 | 793 | 9/9 |
| HP75XL * | Tri-color | 3,282 | 3,216 | 3/3 |

| Printer Identifier | HP Photosmart C5280 |
|----------------------|--|
| Printer Manufacturer | Hewlett-Packard |
| Cartridge Identifier | HP74XL, HP75XL |
| Cartridge Type | Integral ink supply and print head |
| Date Tested | July 23, 2007 to July 25, 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 = 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 |

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

Using the QualityLogic Color Photo test suite provides the following results: Average Tri-color Cartridge Yield – Up to 139 standard pages Estimated supplemental K (Black) Cartridge Yield – Up to 5,190 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 |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| HP75XL | Tri-color | 144 | 139 | 9/9 |
| HP74XL * | K (Black) | 6,173 | 5,190 | 3/3 |

* Denotes supplemental cartridge

| Printer Identifier | HP Photosmart C6380 | | | | |
|----------------------|--|--|--|--|--|
| Printer Manufacturer | Hewlett-Packard | | | | |
| Cartridge Identifier | HP564XL - CB321WN, CB322WN, CB323WN, CB324WN, CB325WN | | | | |
| Cartridge Type | Separate ink supply and print head | | | | |
| Date Tested | October 21, 2008 to November 17, 2008 | | | | |
| 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 = 61.81.2311.0 | | | | |
| | The following driver settings were changed from default: | | | | |
| | Color Ink Test: | | | | |
| | Paper type = Changed to Plain paper from Automatic | | | | |
| | Mono Ink Test: | | | | |
| | Paper type = Changed to Plain paper from Automatic Print all text as black was enabled in the Advanced tab. | | | | |

| Inkjet Cartridge Yield when tested in HP Photosmart C6380 All-in One: |
|--|
| Using the test suite defined in ISO/IEC 24712 provides the following results: |
| Average K (Black) Cartridge Yield – Up to 777 standard pages |
| Average Cyan Cartridge Yield – Up to 781 standard pages |
| Average Yellow Cartridge Yield – Up to 680 standard pages |
| Average Magenta Cartridge Yield – Up to 813 standard pages |
| Estimated supplemental K (Photo Black) Cartridge Yield – Up to 3,390 standard pages |
| Using the test page defined in ISO/IEC 19752 provides the following results: |
| Average K (Black) Cartridge Yield – Up to 827 standard pages |
| Estimated supplemental Cyan Cartridge Yield – Up to 7,006 standard pages |
| Estimated supplemental Yellow Cartridge Yield – Up to 8,441 standard pages |
| Estimated supplemental Magenta Cartridge Yield – Up to 8,692 standard pages |
| Estimated supplemental K (Photo Black) Cartridge Yield – Up to 10,405 standard pages |
| |

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

| 150 24/12 | | | | | |
|----------------------|-----------------|-----------------|---------------------------------|-------------------------------------|--|
| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test | |
| HP 564XL (CB321WN) | K (Black) | 791 | 777 | 9/12 | |
| HP 564XL (CB323WN) | Cyan | 803 | 781 | 9/12 | |
| HP 564XL (CB325WN) | Yellow | 707 | 680 | 9/12 | |
| HP 564XL (CB324WN) | Magenta | 838 | 813 | 9/9 | |
| HP 564XL (CB322WN)* | K (Photo Black) | 3,793 | 3,390 | 3/3 | |

ISO 24712

| ISO | 19752 |
|-----|-------|
| 100 | 10/02 |

| 130 19732 | | | | |
|------------------------|-----------------|-----------------|---------------------------------|--------------------------------------|
| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in _calculations/test |
| HP 564XL (CB321WN) | K (Black) | 828 | 827 | 9/10 |
| HP 564XL (CB323WN) | Cyan | 7,416 | 7,006 | 3/4 |
| HP 564XL (CB325WN) | Yellow | 8,601 | 8,441 | 3/4 |
| HP 564XL (CB324WN) | Magenta | 8,750 | 8,692 | 3/4 |
| HP 564XL (CB322WN)* | K (Photo Black) | 10,581 | 10,405 | 3/4 |
| * Denotes supplemental | cartridge | • | • | |

* Denotes supplemental cartridge

| Printer Identifier | HP Photosmart C6380 | | | | |
|----------------------|--|--|--|--|--|
| Printer Manufacturer | Hewlett-Packard | | | | |
| Cartridge Identifier | HP564XL - CB321WN, CB322WN, CB323WN, CB324WN, CB325WN | | | | |
| Cartridge Type | Separate ink supply and print head | | | | |
| Date Tested | October 29, 2008 to November 7, 2008 | | | | |
| 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 | | | | |
| Media used | HP Premium Plus Photo Paper (Q1785A) | | | | |
| Driver version | Driver Version = 61.81.2311.0 | | | | |
| | The following driver settings were changed from default: Paper type = Changed to HP Premium Plus Photo papers from Automatic Print guality = Changed to Best from Automatic | | | | |

Inkjet Cartridge Yield when tested in HP Photosmart C6380 All-in-One:

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

Average Cyan Cartridge Yield – Up to 261 standard pages

Average Yellow Cartridge Yield – Up to 309 standard pages

Average Magenta Cartridge Yield – Up to 456 standard pages

Average K (Photo Black) Cartridge Yield – Up to 255 standard pages

Estimated supplemental K (Black) Cartridge Yield – Up to 5,532 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 |
|----------------------|-----------------|-----------------|---------------------------------|-------------------------------------|
| HP 564XL (CB323WN) | Cyan | 265 | 261 | 15/18 |
| HP 564XL (CB325WN) | Yellow | 314 | 309 | 12/15 |
| HP 564XL (CB324WN) | Magenta | 474 | 456 | 9/9 |
| HP 564XL (CB322WN) | K (Photo Black) | 260 | 255 | 15/18 |
| HP 564XL (CB321WN) | K (Black)* | 5,926 | 5,532 | 3/3 |

| Printer Identifier | Lexmark X6650 Wireless 4-in-1 |
|----------------------|--|
| Printer Manufacturer | Lexmark |
| Cartridge Identifier | 36XLA, 37XLA |
| Cartridge Type | Integral ink supply and print head |
| Date Tested | October 31, 2008 to November 5, 2008 |
| EOL Criteria | 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 | DriverVer=05/23/2008,1.2.6.2 |
| | The following driver settings were changed from default: |
| | Color Ink Test: |
| | Media Type = Changed to Plain Paper from Automatic |
| | Mono Ink Test: |
| | Media Type = Changed to Plain Paper from Automatic |
| | "Print in Black and White" was enabled on the Print Setup tab. |

Inkjet Cartridge Yield when tested in Lexmark X6650 Wireless 4-in-1:

Using the test suite defined in ISO/IEC 24712 provides the following results: Average K (Black) Cartridge Yield – Up to 571 standard pages Average Tri-color Cartridge Yield – Up to 550 standard pages

Using the test page defined in ISO/IEC 19752 provides the following results: Average K (Black) Cartridge Yield – Up to 580 standard pages Estimated supplemental Tri-color Cartridge Yield – Up to 105,425 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 | |
| 36XLA | K (Black) | 588 | 571 | 9/10 | |
| 37XLA | Tri-color | 571 | 550 | 9/11 | |

ISO 19752

| Cartridge Identifier | Color | Average (pages) | 90% Lower Confidence (pages) | Number used in calculations/test |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| 36XLA | K (Black) | 590 | 580 | 9/9 |
| 37XLA * | Tri-color | 110,250 | 105,425 | 3/3 |

| Printer Identifier | Lexmark X6650 Wireless 4-in-1 | | | |
|----------------------|--|--|--|--|
| Printer Manufacturer | Lexmark | | | |
| Cartridge Identifier | 36XLA, 37XLA | | | |
| Cartridge Type | Integral ink supply and print head | | | |
| Date Tested | November 5, 2008 to November 10, 2008 | | | |
| EOL Criteria | 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 | DriverVer=05/23/2008,1.2.6.2 | | | |
| | The following driver settings were changed from default: | | | |
| | Media Type = Changed to Lexmark Premium Photo Paper from | | | |
| | Automatic | | | |
| | Print Setup = Changed to Best from Automatic | | | |

Inkjet Cartridge Yield when tested in Lexmark X6650 Wireless 4-in-1:

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

Average Tri-Color Cartridge Yield – Up to 110 standard pages

Estimated supplemental (Average) K (Black) Cartridge Yield – Up to 12,740 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 |
|----------------------|-----------|-----------------|---------------------------------|-------------------------------------|
| 37XLA | Tri-color | 114 | 110 | 9/9 |
| 36XLA * | K (Black) | 13,460 | 12,740 | 3/3 |

* Denotes supplemental cartridge

Sub-Appendix A1 – Test Pages

Ve Emerime Et Turn Ober LSA Hout Aplo 1114 16 day HIR GIRLS 4161 1 10 1644 12.112.1 LA THE & 21 im £8 LSA 5.3 5

ISO/ ISO/IEC 24712 Test Suite

ISO/IEC 19752 Test Page



QualityLogic Photo Test Suite

