

**ISO/IEC 24734 Printing Productivity Report: Office Category**  
**Full Detailed Test Report**  
 HP Deskjet D1600 series

**Printing device and test settings**

|                          |                        |            |
|--------------------------|------------------------|------------|
| Test Start Date and Time | 08/20/09               | 8:30:00 AM |
| Tester                   | Nafeesah               |            |
| Machine product number   | D1600 series           |            |
| Machine name/model       | HP Deskjet             |            |
| FW Version               | KNL1FN0908AR           |            |
| Colour or B&W            | Colour printing device |            |
| Temperature and humidity | 24 degrees C, 60%      |            |
| Voltage                  | 240 volts AC           |            |
| Test End Date and Time   | 08/20/09               | 5:30:00 PM |

|                           | Item                    | Value  |
|---------------------------|-------------------------|--|
| <b>Modes and Settings</b> | Driver version          | 70.91.306.0  |
|                           | Media / Quality Setting | Default / Default                                      |
|                           | Simplex B&W settings    | Driver was set to "print in grayscale, black ink only" |
|                           | Duplex B&W settings     | n.a.   |
|                           | Setting N set count     | Application  |
| <b>Paper Path</b>         | Collating function      | On   |
|                           | Paper sending direction | Default  |
|                           | Paper size setting      | Default  |
|                           | Paper feeding           | Standard cassette                                      |
|                           | Paper exit              | Standard exit tray                                     |
|                           | Output orientation      | Default (face up)                                      |
| <b>Paper</b>              | Duplexing unit (Yes/No) | No   |
|                           | Paper Manufacturer      | HP   |
|                           | Weight                  | 22lb   |
|                           | Size                    | 8.5 x 11"  |
|                           | Paper type/name         | HP All-in-One Colorlok                                 |

**Summary Report**

|                |              | FSOT (seconds) | ESAT (ipm) |
|----------------|--------------|----------------|------------|
| <b>Color</b>   | Single Sided | 80             | 3.5        |
|                | Two Sided    |                |            |
| <b>B&amp;W</b> | Single Sided | 60             | 5.0        |
|                | Two Sided    |                |            |

- Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Driver was set to "print in grayscale, black ink only"  
 3) For Simplex B&W results, n.a.  
 4) For device and test settings see Full Detailed Report

**Full Report**

|                |                     | Office Category Test Files | FSOT (sec) | EFTP (ipm) |                   |                  | ESAT (ipm) |
|----------------|---------------------|----------------------------|------------|------------|-------------------|------------------|------------|
|                |                     |                            |            | 1 Set      | 1 Set+ 30 seconds | 1 Set+ 4 Minutes |            |
| <b>Color</b>   | <b>Single Sided</b> | PDF (# sets)               | 94.79      | 2.63       | 2.71              | 2.83             | 2.91       |
|                |                     | Word (# sets)              | 51.63      | 4.74       | 5.41              | 5                | 5.83       |
|                |                     | Excel (# sets)             | 91.68      | 2.64       | 2.81              | 2                | 2.99       |
|                |                     | Average                    | <b>80</b>  | <b>3</b>   | <b>3</b>          | <b>2</b>         | <b>3.5</b> |
|                | <b>Two Sided</b>    | PDF (# sets)               | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Word (# sets)              | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Excel (# sets)             | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Average                    | <b>N/A</b> | <b>N/A</b> | <b>N/A</b>        |                  | <b>N/A</b> |
| <b>B&amp;W</b> | <b>Single Sided</b> | PDF (# sets)               | 67.05      | 3.62       | 3.98              | 3.06             | 4.41       |
|                |                     | Word (# sets)              | 47.15      | 5.22       | 6.03              | 2                | 6.53       |
|                |                     | Excel (# sets)             | 65.65      | 3.64       | 3.95              | 3                | 4.32       |
|                |                     | Average                    | <b>60</b>  | <b>4</b>   | <b>4</b>          | <b>3</b>         | <b>5.0</b> |
|                | <b>Two Sided</b>    | PDF (# sets)               | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Word (# sets)              | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Excel (# sets)             | N/A        | N/A        | N/A               |                  | N/A        |
|                |                     | Average                    | <b>N/A</b> | <b>N/A</b> | <b>N/A</b>        |                  | <b>N/A</b> |

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**Test system parameters**

|                    | Item                    | Value  |
|--------------------|-------------------------|--|
| <b>Test System</b> | Computer                | HP dv9812us Notebook PC                      |
|                    | Processor               | AMD Turion TL-60 2.0 GHz, 1 MB L2 cache      |
|                    | System Chip Set         | Northbridge/Southbridge: nVidia MCP67M       |
|                    | System Board            | Standard system devices, default system BIOS |
|                    | System Memory           | 3GB PC2-5300 DDR2 SDRAM                      |
|                    | Hard Drive subsystem    | Western Digital WD2500BEVS 250 GB            |
|                    | Video subsystem         | nVidia GeForce 7150M                         |
|                    | Optical Drive           | Panasonic/Hewlett-Packard, DVD±RW and CD-RW  |
|                    | I/O subsystem           | Built in                                     |
|                    | USB subsystem           | USB 2.0                                      |
| <b>I/O</b>         | USB                     | USB 2.0                                      |
| <b>Software</b>    | Operating System        | Microsoft Windows Vista Home Premium SP1     |
|                    | Printing Applications   | Microsoft Office Word 2007                   |
|                    |                         | Microsoft Office Excel 2007                  |
|                    |                         | Adobe Reader 8.1.0                           |
|                    | Test Files and location | Office Category files, hard drive            |