

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER  
HP Color LaserJet M154nw

Printing device and settings	
Test Start Date and Time	7/10/2017 13:07
Tester	Susan
Machine name/model	HP Color LaserJet M154nw
Colour or B&W	Colour
FW Version	20170627
Temperature and Humidity	75 degF / 24 degC 25.0 %rH
Voltage	220V
Test End Date and Time	9/22/2017 0:10

Item	Value	
Mode and Setting	Driver Version	44.1.2539
	Media/Quality Settings	Default / Default
	Simplex B&W Settings	
	Duplex B&W Settings	
Paper Path	Setting N set count	Application
	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	No
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for Color Device	FSOT (seconds)	ESAT (ipm)
Color	Simplex	24.2	17.2
	Duplex	N/A	N/A
B&W	Simplex	22.7	17.3
	Duplex	N/A	N/A

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://w.w.w.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)	
		1 set only (1 set)	1 set + 30sec (1 set)	1 set + 4min (1 set)		
Color Mode	Simplex - Adobe Reader	24.37	9.84 (1 set)	14.55 (4 sets)	16.51 (19 sets)	17.30
	Simplex - Word	24.37	9.84 (1 set)	14.51 (4 sets)		17.28
	Simplex - Excel	23.80	10.08 (1 set)	14.58 (4 sets)		17.30
	Simplex - Average	24.2	9.9	14.5	16.5	17.2
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	22.75	10.55 (1 set)	14.91 (4 sets)	16.32 (19 sets)	17.32
	Simplex - Word	22.91	10.47 (1 set)	14.90 (4 sets)		17.31
	Simplex - Excel	22.37	10.72 (1 set)	15.07 (4 sets)		17.29
	Simplex - Average	22.7	10.5	14.9	16.3	17.3
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://w.w.w.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCASHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

Full Detailed Test Report - A4

HP Color LaserJet M154nw

Printing device and settings		
Test Start Date and Time	7/10/2017 13:07	
Tester	Susan	
Machine name/model	HP Color LaserJet M154nw	
Colour or B&W	Colour	
FW Version	20170627	
Temperature and Humidity	75 degF / 24 degC 25.0 %rH	
Voltage	220V	
Test End Date and Time	9/22/2017 0:10	

	Item	Value
Mode and Setting	Driver Version	44.1.2539
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	
	Duplex B&W Settings	
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	No
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	25.0	16.4
	Duplex	N/A	N/A
B&W	Simplex	23.5	16.4
	Duplex	N/A	N/A

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader	24.91	9.63 ( 1 set )	13.94 ( 4 sets )	15.61 ( 18 sets )	16.48
	Simplex - Word	25.03	9.59 ( 1 set )	13.95 ( 4 sets )		16.50
	Simplex - Excel	24.85	9.65 ( 1 set )	13.96 ( 4 sets )		16.48
	Simplex - Average	25.0	9.6	13.9	15.6	16.4
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	23.41	10.24 ( 1 set )	14.31 ( 4 sets )	15.53 ( 18 sets )	16.50
	Simplex - Word	23.84	10.06 ( 1 set )	13.79 ( 4 sets )		16.47
	Simplex - Excel	22.97	10.44 ( 1 set )	14.41 ( 4 sets )		16.48
	Simplex - Average	23.5	10.2	14.1	15.5	16.4
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Feature Performance Full Report - Office Feature Performance Test**

HP Color LaserJet M154nw

Printing device and settings		
Test Start Date and Time	7/10/2017 13:07	
Tester	Susan	
Machine name/model	HP Color LaserJet M154nw	
Colour or B&W	Colour	
FW Version	20170627	
Temperature and Humidity	75 degF / 24 degC 25.0 %rH	
Voltage	220V	
Test End Date and Time	9/22/2017 0:10	

	Item	Value
Mode and Setting	Driver Version	44.1.2539
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	
	Duplex B&W Settings	
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
Paper	Duplexing Unit (Yes/No)	No
	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

**ISO Print Productivity Report: Feature Performance Test Summary**

Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio	
		A5 and Legal	
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5 Landscape Feed - Colour	Simplex	114%	120%
A5 Portrait Feed - Colour	Simplex	68%	34%
Legal - Colour	Simplex		
Legal - Colour	Duplex		
A5 Landscape Feed - B/W	Simplex	141%	166%
A5 Portrait Feed - B/W	Simplex	68%	34%
Legal - B/W	Simplex		
Legal - B/W	Duplex		

Notes

- 1) All printing device and driver settings were default mode.
- 2) Test conducted with 8-paper Office Feature Performance file.
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

**Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test**

Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	A5 and Legal			
			1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
Simplex A5 Landscape Feed - Colour	40.14	16.5	35.45	19.9	114%	120%
Simplex A5 Portrait Feed - Colour	40.14	16.5	59.89	5.6	68%	34%
Legal Simplex - Colour	40.14	16.5				
Legal Duplex - Colour	40.14	16.5				
Simplex A5 Landscape Feed - B/W	37.96	16.47	26.96	27.5	141%	166%
Simplex A5 Portrait Feed - B/W	37.96	16.47	56.55	5.6	68%	34%
Legal Simplex - B/W	37.96	16.47				
Legal Duplex - B/W	37.96	16.47				

Notes

- 1) All printing device and driver settings were default mode.
- 2) Test conducted with 8-paper Office Feature Performance file.
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters		
	Item	Value
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCXHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
I/O	TCP/IP	
Software	Operating System	Windows 7 64 Bit
	Printing Applications	Microsoft Office 2010
	Microsoft Office	Office 2010
	Adobe Reader	10
	Test files and location	Office category files, hard drive

**ISO/IEC 17629 First Print Out Time Report: Office Category**

Full Detailed Test Report - LETTER  
HP Color LaserJet M154nw

Printing device and settings	
Test Start Date and Time	7/10/2017 13:07
Tester	Susan
Machine name/model	HP Color LaserJet M154nw
Colour or B&W	Colour
FW Version	20170627
Configuration (options)	Default
Controller	11500
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	75 degF / 24 degC 25.0 %rH
Voltage	220V
Test End Date and Time	9/22/2017 0:10

Item	Value
<b>Mode and Setting</b>	
PDL and driver version	44.1.2539
Print Quality mode	default
B&W settings	default
Paper feed orientation	Short Edge
<b>Paper</b>	
Paper type setting	default
Paper feeding	Standard cassette
<b>Paper Path</b>	
Paper exit	Standard exit tray
Output orientation	default (face up or face down)

**ISO First Page Out Time Summary Report: Office Category**

Summary Report: Letter		FPOT from Ready (seconds)
Color	Simplex	13.37
	Duplex	
B&W	Simplex	11.78
	Duplex	

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.  
 5) Page counts were collected after completion of the tests.

**ISO First Page Out Time Report: Office Category**

Detailed Report: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	13.23	13.17	13.69	13.37	49 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.75		61 Minutes
	Recovery Time			0.1		
	FPOT from Off - Simplex			53.54		
	Warm-up Time			39.85		
B&W Mode	FPOT from Ready - Simplex	11.79	11.69	11.86	11.78	49 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.24		61 Minutes
	Recovery Time			0.4		
	FPOT from Off - Simplex			50.28		
	Warm-up Time			38.42		

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.  
 5) Page counts were collected after completion of the tests.  
 6) Details for FPOT from Sleep are shown below.

**HP Data Table**

Detailed Report: LETTER							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	13.75	13.89	13.60	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	13.88	13.89	13.86	N/A	Adobe Reader	16 Minutes
	FPOT from Sleep	12.24	12.25	12.23	N/A	Adobe Reader	61 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	12.38	12.37	12.39	N/A	Adobe Reader	16 Minutes

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16ACSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
		Adobe Reader 10.1.4
	Print Driver	44.1.2539

**ISO/IEC 17629 First Print Out Time Report: Office Category**

Full Detailed Test Report - A4

HP Color LaserJet M154nw

Printing device and settings	
Test Start Date and Time	7/10/2017 13:07
Tester	Susan
Machine name/model	HP Color LaserJet M154nw
Colour or B&W	Colour
FW Version	20170627
Configuration (options)	Default
Controller	11500
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	75 degF / 24 degC 25.0 %rH
Voltage	220V
Test End Date and Time	9/22/2017 0:10

Item	Value	
<b>Mode and Setting</b>	PDL and driver version	44.1.2539
	Print Quality mode	default
	B&W settings	default
<b>Paper</b>	Paper feed orientation	Short Edge
	Paper type setting	default
	Paper feeding	Standard cassette
<b>Paper Path</b>	Paper exit	Standard exit tray
	Output orientation	default (face up or face down)

**ISO First Page Out Time Summary Report: Office Category**

Summary Report: A4

		FPOT from Ready (seconds)
<b>Colour</b>	Simplex	13.48
	Duplex	
<b>B&amp;W</b>	Simplex	11.92
	Duplex	

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.

**ISO First Page Out Time Report: Office Category**

Detailed Report: A4

		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
<b>Color Mode</b>	FPOT from Ready - Simplex	13.50	13.29	13.63	13.48	49 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.89		61 Minutes
	Recovery Time			0.3		
	FPOT from Off - Simplex			54.69		
	Warm-up Time			41.06		
<b>B&amp;W Mode</b>	FPOT from Ready - Simplex	11.90	11.78	12.08	11.92	49 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.44		61 Minutes
	Recovery Time			0.4		
	FPOT from Off - Simplex			57.02		
	Warm-up Time			44.94		

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.
- 6) Details for FPOT from Sleep are shown below.

**HP Data Table**

Detailed Report: A4

		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
<b>Color Mode</b>	FPOT from Sleep	13.89	13.84	13.93	N/A	Adobe Reader	61 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	13.99	14.01	13.97	N/A	Adobe Reader	16 Minutes
	FPOT from Sleep	12.44	12.43	12.44	N/A	Adobe Reader	61 Minutes
<b>B&amp;W Mode</b>	FPOT from Sleep (15 minutes) HP/Non ISO Test	12.55	12.58	12.52	N/A	Adobe Reader	16 Minutes

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) DLP includes detailed iterations as data measurements may vary run to run.

Test System Parameters		
Item	Value	
<b>Test System</b>	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 Ghz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 8350
	Optical Drive	HP DVD A DH16ACSHR ATA
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
<b>Software</b>	Printing Applications	Microsoft Office 2010 SP2
		Adobe Reader 10.1.4
	Print Driver	44.1.2539