

**Yield Reporting Form:**  
**HP LaserJet Pro 400 Color M451 cartridge models CE410X,**  
**CE411A, CE412A and CE413A**

**Declared ISO Yield****Toner cartridge yield:**Average composite CMY cartridge yield 2600 standard pages<sup>1</sup>Average K cartridge yield 4000 standard pages<sup>1</sup>*Declared yield value in accordance with ISO/IEC 19798 based on continuous printing.*Calculated test values

<b>90% lower confidence limit<sup>1</sup></b>	
Cyan (CE411A) Cartridge	2641 pages
Magenta (CE413A) Cartridge	2641 pages
Yellow (CE412A) Cartridge	2641 pages
Composite CMY	2641 pages
Black (CE410X) Cartridge	4062 pages

Test date: beginning	1/9/2012
Test dates: ending	1/16/2012
Number of cartridges used in testing	36
Number of cartridges used in calculations	C=9, M=9, Y=9, K=9 (Total=36)
Type of cartridge	All-in-one
Shake procedure used?	No
Print mode	Continuous
MPACCO Mode	Off
Number of engines used in testing	3
Media	HP Multipurpose
Paper size	Letter
Paper feed orientation	Short edge
Computer model	HP 2025 PC
Operating system	Windows XP Professional
Application software	Adobe Reader 9
Print driver version	HP LJ 300-400 color M351-M451 PCL6
Connection type	network
Test page version	ISO-IEC 24712
Power on/off every day	No

Engine serial numbers:	Engine Firmware Version:
CNBH200010	20110811
CNBH200005	20110811
CNBH200003	20110811

Cartridge testing data

Test environmental limits:

	Temperature	Humidity
	°C	%RH
Max running average	23.0	50
Min running average	23.0	50
Average	23.0	50

<b>Cyan (CE411A)</b> in LaserJet HP LaserJet Pro 400 Color				<b>Magenta (CE413A)</b> in LaserJet HP LaserJet Pro 400 Color			
Average:		2,644		Average:		2,644	
Standard Deviation:		4		Standard Deviation:		4	
90% LCB:		2,641		90% LCB:		2,641	
Cartridge#	Lot Code	Engine SerNo	Cartridge Yield	Cartridge#	Lot Code	Engine SerNo	Cartridge Yield
CE411A-30	1K08M1Ea	CNBH200010	2,645	CE413A-30	1H08M1Ea	CNBH200010	2,645
CE411A-31	1K08M1Ea	CNBH200005	2,650	CE413A-31	1H08M1Ea	CNBH200005	2,650
CE411A-32	1K08M1Ea	CNBH200003	2,645	CE413A-32	1H08M1Ea	CNBH200003	2,645
CE411A-33	1K24M2Ea	CNBH200010	2,645	CE413A-33	1K24M3Ea	CNBH200010	2,645
CE411A-34	1K08M1Ea	CNBH200005	2,640	CE413A-34	1K24M3Ea	CNBH200005	2,640
CE411A-35	1K24M2Ea	CNBH200003	2,635	CE413A-35	1K25M1Ea	CNBH200003	2,635
CE411A-36	1K24M2Ea	CNBH200010	2,645	CE413A-36	1K24M3Ea	CNBH200010	2,645
CE411A-37	1K08M1Ea	CNBH200005	2,645	CE413A-37	1K24M3Ea	CNBH200005	2,645
CE411A-38	1K24M2Ea	CNBH200003	2,645	CE413A-38	1K24M3Ea	CNBH200003	2,645

<b>Yellow (CE412A)</b> in LaserJet HP LaserJet Pro 400 Color				<b>Black (CE410X)</b> in LaserJet HP LaserJet Pro 400 Color			
Average:		2,644		Average:		4,068	
Standard Deviation:		4		Standard Deviation:		9	
90% LCB:		2,641		90% LCB:		4,062	
Cartridge#	Lot Code	Engine SerNo	Cartridge Yield	Cartridge#	Lot Code	Engine SerNo	Cartridge Yield
CE412A-30	1J30M1Ea	CNBH200010	2,645	CE410X-30	1K22M3Ea	CNBH200010	4,080
CE412A-31	1J29M1Ea	CNBH200005	2,650	CE410X-31	1K02M2Ea	CNBH200005	4,080
CE412A-32	1J30M1Ea	CNBH200003	2,645	CE410X-32	1K22M3Ea	CNBH200003	4,065
CE412A-33	1J30M1Ea	CNBH200010	2,645	CE410X-33	1K23M2Ea	CNBH200010	4,070
CE412A-34	1J30M1Ea	CNBH200005	2,640	CE410X-34	1K02M2Ea	CNBH200005	4,060
CE412A-35	1J30M1Ea	CNBH200003	2,635	CE410X-35	1K02M2Ea	CNBH200003	4,060
CE412A-36	1J30M1Ea	CNBH200010	2,645	CE410X-36	1K23M2Ea	CNBH200010	4,060
CE412A-37	1J30M1Ea	CNBH200005	2,645	CE410X-37	1K02M2Ea	CNBH200005	4,060
CE412A-38	1J30M1Ea	CNBH200003	2,645	CE410X-38	1K02M2Ea	CNBH200003	4,075

<sup>1</sup> In an ISO report commonly two values are listed: declared ISO yield and calculated test values. Generally, the calculated test values are higher than the declared ISO yield. Actual cartridge yields vary considerably based on content of images printed and other factors. For more information, visit [www.hp.com/go/learnaboutsupplies](http://www.hp.com/go/learnaboutsupplies).