

# Canon imagePROGRAF iPF8300

## Cost Per Print and Ink Yield Analysis



		Canon Heavyweight Satin Photographic Paper		Canon Graphic Matte Canvas		Canon Premium RC Photo Luster Paper		
		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		
		700ml	330ml	700ml	330ml	700ml	330ml	
42"	N5 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$3.53	\$4.41	\$3.53	\$4.41	\$3.87	\$4.83
		Media Cost/Print	\$9.82	\$9.82	\$30.51	\$30.51	\$9.81	\$9.81
		<b>Total Print Cost</b>	<b>\$13.35</b>	<b>\$14.23</b>	<b>\$34.04</b>	<b>\$34.92</b>	<b>\$16.68</b>	<b>\$14.64</b>
		Ink Cost/ft²	\$0.235	\$0.294	\$0.235	\$0.294	\$0.258	\$0.322
		Media Cost/ft²	\$0.642	\$0.642	\$1.993	\$1.993	\$0.641	\$0.641
		<b>Total Cost/ft²</b>	<b>\$0.877</b>	<b>\$0.936</b>	<b>\$2.228</b>	<b>\$2.287</b>	<b>\$0.899</b>	<b>\$0.963</b>
		ft²/Ink Set	15,023	7,082	15,023	7,082	13,716	6,467
	Clouds 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$6.26	\$7.82	\$6.05	\$7.55	\$6.72	\$8.39
		Media Cost/Print	\$9.82	\$9.82	\$30.51	\$30.51	\$9.81	\$9.81
		<b>Total Print Cost</b>	<b>\$16.08</b>	<b>\$17.64</b>	<b>\$36.56</b>	<b>\$38.06</b>	<b>\$16.53</b>	<b>\$18.20</b>
		Ink Cost/ft²	\$0.417	\$0.520	\$0.403	\$0.503	\$0.448	\$0.559
		Media Cost/ft²	\$0.642	\$0.642	\$1.993	\$1.993	\$0.641	\$0.641
		<b>Total Cost/ft²</b>	<b>\$1.059</b>	<b>\$1.162</b>	<b>\$2.396</b>	<b>\$2.496</b>	<b>\$1.089</b>	<b>\$1.200</b>
		ft²/Ink Set	8,469	3,993	8,763	4,132	7,887	3,718
	Flower 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$7.98	\$9.97	\$9.71	\$12.11	\$8.45	\$10.54
		Media Cost/Print	\$9.82	\$9.82	\$30.51	\$30.51	\$9.81	\$9.81
		<b>Total Print Cost</b>	<b>\$17.80</b>	<b>\$19.79</b>	<b>\$40.22</b>	<b>\$42.62</b>	<b>\$18.26</b>	<b>\$20.35</b>
		Ink Cost/ft²	\$0.532	\$0.664	\$0.646	\$0.807	\$0.562	\$0.702
Media Cost/ft²		\$0.642	\$0.642	\$1.993	\$1.993	\$0.641	\$0.641	
<b>Total Cost/ft²</b>		<b>\$1.174</b>	<b>\$1.306</b>	<b>\$2.639</b>	<b>\$2.800</b>	<b>\$1.203</b>	<b>\$1.343</b>	
	ft²/Ink Set	6,642	3,131	5,463	2,576	6,278	2,960	
42"		Canon Fine Art Photo Rag by Hahnemuhle		Canon German Etching by Hahnemuhle		Canon Fine Art Watercolor Paper		
		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		
		700ml	330ml	700ml	330ml	700ml	330ml	
	N5 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$3.45	\$4.30	\$3.83	\$4.78	\$3.53	\$4.41
		Media Cost/Print	\$30.77	\$30.77	\$31.13	\$31.13	\$23.38	\$23.38
		<b>Total Print Cost</b>	<b>\$34.22</b>	<b>\$35.07</b>	<b>\$34.96</b>	<b>\$35.91</b>	<b>\$26.91</b>	<b>\$27.79</b>
		Ink Cost/ft²	\$0.230	\$0.287	\$0.255	\$0.318	\$0.235	\$0.294
		Media Cost/ft²	\$2.010	\$2.010	\$2.033	\$2.033	\$1.528	\$1.528
		<b>Total Cost/ft²</b>	<b>\$2.240</b>	<b>\$2.297</b>	<b>\$2.288</b>	<b>\$2.351</b>	<b>\$1.763</b>	<b>\$1.822</b>
		ft²/Ink Set	15,389	7,255	13,867	6,538	15,023	7,082
	Clouds 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$5.42	\$6.77	\$5.93	\$7.40	\$5.51	\$6.87
		Media Cost/Print	\$30.77	\$30.77	\$31.13	\$31.13	\$23.38	\$23.38
		<b>Total Print Cost</b>	<b>\$36.19</b>	<b>\$37.54</b>	<b>\$37.06</b>	<b>\$38.53</b>	<b>\$28.89</b>	<b>\$30.25</b>
		Ink Cost/ft²	\$0.361	\$0.451	\$0.395	\$0.493	\$0.367	\$0.458
		Media Cost/ft²	\$2.010	\$2.010	\$2.033	\$2.033	\$1.528	\$1.528
		<b>Total Cost/ft²</b>	<b>\$2.371</b>	<b>\$2.461</b>	<b>\$2.428</b>	<b>\$2.526</b>	<b>\$1.895</b>	<b>\$1.986</b>
		ft²/Ink Set	9,782	4,612	8,950	4,220	9,633	4,542
	Flower 42" x 52.5" (15.32 ft²)	Ink Cost/Print	\$9.41	\$11.75	\$10.55	\$13.16	\$10.88	\$13.58
Media Cost/Print		\$30.77	\$30.77	\$31.13	\$31.13	\$23.38	\$23.38	
<b>Total Print Cost</b>		<b>\$40.18</b>	<b>\$42.52</b>	<b>\$41.68</b>	<b>\$44.29</b>	<b>\$34.26</b>	<b>\$36.96</b>	
Ink Cost/ft²		\$0.627	\$0.782	\$0.702	\$0.876	\$0.725	\$0.904	
Media Cost/ft²		\$2.010	\$2.010	\$2.033	\$2.033	\$1.528	\$1.528	
<b>Total Cost/ft²</b>		<b>\$2.637</b>	<b>\$2.792</b>	<b>\$2.735</b>	<b>\$2.909</b>	<b>\$2.253</b>	<b>\$2.432</b>	
	ft²/Ink Set	5,634	2,656	5,028	2,371	4,873	2,297	
36"		Canon Heavyweight Coated Paper		Canon Glossy Photographic Paper 240gsm		Canon Artistic Satin Canvas		
		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		Auto (Color)/(Monochrome Photo), High		
		700ml	330ml	700ml	330ml	700ml	330ml	
	N5 36" x 45" (11.25 ft²)	Ink Cost/Print	\$2.61	\$3.26	\$2.65	\$3.31	\$2.78	\$3.46
		Media Cost/Print	\$2.60	\$2.60	\$5.57	\$5.57	\$25.74	\$25.74
		<b>Total Print Cost</b>	<b>\$5.21</b>	<b>\$5.86</b>	<b>\$8.22</b>	<b>\$8.88</b>	<b>\$28.52</b>	<b>\$29.20</b>
		Ink Cost/ft²	\$0.237	\$0.296	\$0.241	\$0.301	\$0.252	\$0.315
		Media Cost/ft²	\$0.231	\$0.231	\$0.495	\$0.495	\$2.288	\$2.288
		<b>Total Cost/ft²</b>	<b>\$0.468</b>	<b>\$0.527</b>	<b>\$0.736</b>	<b>\$0.796</b>	<b>\$2.540</b>	<b>\$2.603</b>
		ft²/Ink Set	14,906	7,027	14,669	6,916	14,002	6,601
	Clouds 36" x 45" (11.25 ft²)	Ink Cost/Print	\$3.99	\$4.99	\$4.67	\$5.82	\$4.67	\$5.82
		Media Cost/Print	\$2.60	\$2.60	\$5.57	\$5.57	\$25.74	\$25.74
		<b>Total Print Cost</b>	<b>\$6.59</b>	<b>\$7.59</b>	<b>\$10.24</b>	<b>\$11.39</b>	<b>\$30.41</b>	<b>\$31.56</b>
		Ink Cost/ft²	\$0.363	\$0.454	\$0.425	\$0.530	\$0.425	\$0.530
		Media Cost/ft²	\$0.231	\$0.231	\$0.495	\$0.495	\$2.288	\$2.288
		<b>Total Cost/ft²</b>	<b>\$0.594</b>	<b>\$0.685</b>	<b>\$0.920</b>	<b>\$1.025</b>	<b>\$2.713</b>	<b>\$2.818</b>
		ft²/Ink Set	9,728	4,586	8,326	3,925	8,326	3,925
	Flower 36" x 45" (11.25 ft²)	Ink Cost/Print	\$8.36	\$10.44	\$5.84	\$7.29	\$6.51	\$8.86
Media Cost/Print		\$2.60	\$2.60	\$5.57	\$5.57	\$25.74	\$25.74	
<b>Total Print Cost</b>		<b>\$10.96</b>	<b>\$13.04</b>	<b>\$11.41</b>	<b>\$12.86</b>	<b>\$16.52</b>	<b>\$34.60</b>	
Ink Cost/ft²		\$0.760	\$0.949	\$0.531	\$0.663	\$0.594	\$0.806	
Media Cost/ft²		\$0.231	\$0.231	\$0.495	\$0.495	\$2.288	\$2.288	
<b>Total Cost/ft²</b>		<b>\$0.991</b>	<b>\$1.180</b>	<b>\$1.026</b>	<b>\$1.158</b>	<b>\$1.335</b>	<b>\$3.094</b>	
	ft²/Ink Set	4,644	2,190	6,649	3,135	3,966	2,578	

The ink cost analysis is based on ink usage amount reported from the job log function of the printer, using the specified type of paper and print mode with the printer driver under conditions stated below. The media cost analysis is based on square footage from the size of the paper using roll feed paper. The total cost stated is a sum of the cost of ink and the media including any waste to print one complete print, and does not include the cost of other customer replaceable items such as a print head, a cutter, and a maintenance cartridge. The ft<sup>2</sup>/Ink Set represents the average number of prints that can be printed with a set of twelve ink cartridges. All cost information has been rounded up, and there are minute discrepancies in the total because of the rounding error. The result of this analysis may not be exact and is not guaranteed, and therefore should only be used as a guide to estimate cost. All prices used in this analysis are based on MSRP in U.S. dollars as of May 2010. This document was created in May 2010, and specifications and prices are subject to change without notice.

Samples are printed under the following conditions: Printer: iPF8300, Firmware version 1.07, OS: Windows XP SP2, CPU: Pentium 4/3.2GHz, RAM: 1.5GB, Interface: 100 Base-TX, iPF8300 Driver: Windows Driver Ver 4.31 (Media Configuration Tool applied), Application: Adobe® Photoshop® CS2, Print Plug-in for Photoshop CS2 (version 4.0).

## Sample images used in this analysis



N5.tif (ISO-JIS SCID N5 a.k.a. "Bicycle") Output image size: 42" Roll: 42"x52.5" (Image size: 41.6"x52.0", image resized to fit paper), 36" Roll: 36"x45" (Image size: 35.60"x44.50")



Clouds (clouds.tif) © David Sparer Output image size: 42" Roll: 42"x52.5" (Image size: 41.6"x52.0", image resized to fit paper), 36" Roll: 36"x45" (Image size: 35.60"x44.50")



Flower (flower.tif) © David Sparer Output image size: 42" Roll: 42"x52.5" (Image size: 41.6"x52.0", image resized to fit paper), 36" Roll: 36"x45" (Image size: 35.60"x44.50")

## Canon Media Information

Media Name	Item No.	MSRP	Cost/ft <sup>2</sup>
<b>Photographic Paper</b>			
Glossy Photographic Paper (190 gsm) 36" × 100ft	0848V613	\$118.55	\$0.40
Glossy Photographic Paper (190 gsm) 42" × 100ft	0848V614	\$143.10	\$0.41
Satin Photographic Paper (190 gsm) 36" × 100ft	0848V606	\$118.55	\$0.40
Satin Photographic Paper (190 gsm) 42" × 100ft	0848V607	\$143.10	\$0.41
<b>Glossy Photographic Paper (240 gsm) 36" × 100ft</b>	0849V337	\$148.45	\$0.50
Glossy Photographic Paper (240 gsm) 42" × 100ft	0849V338	\$163.05	\$0.47
Satin Photographic Paper (240 gsm) 36" × 100ft	0849V359	\$163.30	\$0.55
Satin Photographic Paper (240 gsm) 42" × 100ft	0849V360	\$179.35	\$0.51
HW Glossy Photographic Paper (300gsm) 36" × 100ft	0849V391	\$191.00	\$0.64
HW Glossy Photographic Paper (300gsm) 42" × 100ft	0849V392	\$224.40	\$0.65
HW Satin Photographic Paper (300gsm) 36" × 100ft	0849V332	\$191.00	\$0.64
<b>HW Satin Photographic Paper (300gsm) 42" × 100ft</b>	0849V333	\$224.40	\$0.65
Premium RC Photo Luster 36" × 100ft	1100V105	\$224.05	\$0.75
<b>Premium RC Photo Luster 42" × 100ft</b>	1100V106	\$320.05	\$0.92
<b>Fine Art Media</b>			
Graphic Matte Canvas 36" × 40ft	0214V011	\$245.10	\$2.05
<b>Graphic Matte Canvas 42" × 40ft</b>	0214V012	\$278.95	\$2.00
<b>Artistic Satin Canvas 36" × 40ft</b>	1429V468	\$274.55	\$2.29
Artistic Satin Canvas 42" × 40ft	1429V469	\$320.30	\$2.29
Fine Art Watercolor Paper 36" × 50ft	0826V688	\$251.05	\$1.68
<b>Fine Art Watercolor Paper 44" × 50ft</b>	0826V687	\$279.45	\$1.53
Fine Art Natural (230 gsm) 36" × 50ft	0850V063	\$91.35	\$0.61
Fine Art Bright White (230 gsm) 36" × 50ft	0850V069	\$91.35	\$0.61
Fine Art Bright White (330 gsm) 36" × 50ft	0850V075	\$153.05	\$1.02
Fine Art Photo Rag 188gsm by Hahnemühle 36" × 39ft	0635V211	\$220.65	\$1.89
<b>Fine Art Photo Rag 188gsm by Hahnemühle 44" × 39ft</b>	0635V208	\$287.40	\$2.01
German Etching by Hahnemühle (310 gsm) 36" × 39ft	0850V753	\$217.35	\$1.86
<b>German Etching by Hahnemühle (310 gsm) 44" × 39ft</b>	0850V754	\$290.70	\$2.04
Fine Art Enhanced Velvet (255gsm), 36" × 33ft	0623V132	\$156.50	\$1.59
Fine Art Enhanced Velvet (255gsm), 44" × 33ft	0623V133	\$191.35	\$1.59
<b>Coated Paper</b>			
High Resolution Coated Bond Paper 36" × 100ft	1099V650	\$44.55	\$0.15
High Resolution Coated Bond Paper 42" × 100ft	1099V651	\$52.90	\$0.16
<b>Heavyweight Coated Paper 36" × 130ft</b>	6646A001AA	\$89.90	\$0.24
Heavyweight Coated Paper 42" × 130ft	6645A001AA	\$111.65	\$0.25
Heavyweight Matte Coated Paper 36" × 100ft	0849V343	\$88.40	\$0.30
Heavyweight Matte Coated Paper 42" × 100ft	0849V344	\$103.80	\$0.30
Matte Coated Paper (170 gsm) 36" × 100ft	0849V350	\$51.45	\$0.18
Matte Coated Paper (170 gsm) 42" × 100ft	0849V351	\$68.70	\$0.20

Media Name	Item No.	MSRP	Cost/ft <sup>2</sup>
<b>Proofing Paper</b>			
Commercial Proofing Paper 24" × 150ft	0848V600	\$148.35	\$0.50
Commercial Proofing Paper 36" × 150ft	0848V601	\$215.70	\$0.48
Commercial RC Proofing Paper (210 gsm) 24" × 100ft	0849V328	\$136.80	\$0.69
Commercial RC Proofing Paper (210 gsm) 36" × 100ft	0849V329	\$188.60	\$0.63
Commercial RC Proofing Paper (270 gsm) 24" × 100ft	0849V346	\$162.00	\$0.81
Commercial RC Proofing Paper (270 gsm) 36" × 100ft	0849V347	\$222.30	\$0.75
<b>Signage Media</b>			
Durable Backlit Film 36" × 100ft	0834V787	\$284.65	\$0.95
Durable Backlit Film 42" × 100ft	0834V788	\$332.10	\$0.95
Durable Matte Polypropylene Banner 36" × 100ft	0834V778	\$124.10	\$0.42
Durable Matte Polypropylene Banner 42" × 100ft	0834V779	\$144.75	\$0.42
Adhesive Matte Vinyl 36" × 66ft	0546V881	\$227.55	\$1.15
Adhesive Matte Vinyl 42" × 66ft	0546V882	\$265.50	\$1.15
Scrim Banner Vinyl 36" × 40ft	1290V134	\$197.30	\$1.65
Scrim Banner Vinyl 42" × 40ft	1290V135	\$230.15	\$1.65
Universal White Film 36" × 66ft	1087V076	\$280.25	\$1.42
Universal White Film 42" × 66ft	1087V077	\$329.40	\$1.43
Adhesive White Film 36" × 66ft	1087V079	\$385.85	\$1.95
Adhesive White Film 42" × 66ft	1087V080	\$497.55	\$2.16
Tyvek Banner 36" × 66ft	1359V509	\$253.45	\$1.29
Tyvek Banner 42" × 66ft	1359V510	\$295.60	\$1.28

## Ink Tank Information

Color	330ml Tank PFI-304		700ml Tank PFI-704			
	MSRP	Cost/ml	MSRP	Cost/ml		
Matte Black	3848B001AA	\$173.00	\$0.525	3860B001AA	\$294.00	\$0.420
Black	3849B001AA	\$173.00	\$0.525	3861B001AA	\$294.00	\$0.420
Cyan	3850B001AA	\$173.00	\$0.525	3862B001AA	\$294.00	\$0.420
Magenta	3851B001AA	\$173.00	\$0.525	3863B001AA	\$294.00	\$0.420
Yellow	3852B001AA	\$173.00	\$0.525	3864B001AA	\$294.00	\$0.420
Photo Cyan	3853B001AA	\$173.00	\$0.525	3865B001AA	\$294.00	\$0.420
Photo Magenta	3854B001AA	\$173.00	\$0.525	3866B001AA	\$294.00	\$0.420
Red	3855B001AA	\$173.00	\$0.525	3867B001AA	\$294.00	\$0.420
Green	3856B001AA	\$173.00	\$0.525	3868B001AA	\$294.00	\$0.420
Blue	3857B001AA	\$173.00	\$0.525	3869B001AA	\$294.00	\$0.420
Gray	3858B001AA	\$173.00	\$0.525	3870B001AA	\$294.00	\$0.420
Photo Gray	3859B001AA	\$173.00	\$0.525	3871B001AA	\$294.00	\$0.420