

# 1 Printer Features

## Introduction

Hewlett-Packard printers which support the PCL 5 printer language contain slightly different feature sets, each suitable for that printer's intended use. Each printer implements minor variations of PCL 5 as a result of those differences. With new printer releases, new features may be added with new commands and/or PCL operations which require documentation.

The purpose of this guide is to identify the differences in the implementation of the PCL 5 Printer Language for different HP LaserJet and DeskJet printers, as compared to the features described in the *PCL 5 Printer Language Technical Reference Manual*. This guide describes new commands and exceptions to existing commands unique to the printers, as well as internal typeface/font support and print environment settings.

This guide covers the following HP LaserJet printers:

	<b>Introduction Date</b>
● LaserJet III	March 1990
● LaserJet IIID	September 1990
● LaserJet IIISi	February 1991
● LaserJet IIIP	May 1991
● LaserJet 4, 4M	October 1992
● LaserJet 4Si, 4SiMx	April 1993
● LaserJet 4L, 4ML	May 1993
● LaserJet 4P, 4MP	September 1993
● LaserJet 4 Plus, 4M Plus, 4PJ	May 1994
● LaserJet 4V, 4MV	September 1994
● DeskJet 1200C, 1200/PS	May 1993
● Color LaserJet	September 1994
● LaserJet 4LC	March 1995
● DeskJet 1600C	March 1995
● LaserJet 4LJ Pro	May 1995
● LaserJet 5P, 5MP	May 1995
● LaserJet 5L	September 1995
● LaserJet 5Si, 5SiMx	November 1995
● Color LaserJet 5, 5M	March 1996
● LaserJet 5, 5M	April 1996
● LaserJet 5Si Mopier	October 1996
● LaserJet 6P, 6MP	October 1996
● LaserJet 6L	September 1997
● LaserJet 4000 series	November 1997
● LaserJet 5000 series	February 1998
● LaserJet 8000 series	May 1998
● LaserJet 8100 series	October 1998
● Color LaserJet 4500 series	October 1998
● Color LaserJet 8500 series	October 1998
● LaserJet 1100 series	October 1998
● LaserJet 2100 series	February 1999

This guide also covers the HP 1200C and 1600C DeskJet printers.

# PCL Feature Support

Tables 1-1A through 1-1C, the PCL Feature Support Matrix, lists all the printer commands from the *PCL 5 Printer Language Technical Reference Manual* and identifies which of these commands are supported by the various printers. The table below describes the printers covered in each table. (More detailed PCL information for each PCL 5 printer is provided in Chapter 2.)

Table	Pages	Features for these Printers
1-1A	1-6 to 15	HP LaserJet III, IIID, IIISi, IIIP, 4, 4M, 4Si, 4SiMx, 4L, 4ML, 4P, 4MP, 4PJ, 4 Plus, 4M Plus, 4V, 4MV
1-1B	1-16 to 25	HP Color LaserJet, Color LaserJet 5/5M, LaserJet 4LJ Pro, 4LC, 5L, 6L, 6L Gold, 5P, 5MP, 6P, 6MP, 5Si, 5SiMx, 5Si Mopier, 5, 5M, DeskJet 1200C, DeskJet 1600C
1-1C	1-26 to 35	HP LaserJet 1100 Series, 2100 Series, 4000 Series, 5000 Series, 8000 Series, 8100 Series, HP Color LaserJet 4500 Series, HP Color LaserJet 8500 Series

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## Note

The *PCL 5 Printer Language Technical Reference Manual* (part number 5961-0509) was revised for the release of the HP LaserJet 4 printer and contains all PCL language features up to the HP LaserJet 4 printer. Subsequent commands are covered in this *PCL 5 Comparison Guide* and the *PCL 5 Color Technical Reference Manual*.

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**Note**

In Table 1-1, if the command value field parameters are not listed, then all parameters are supported by printers that support that command.

The value in parentheses following a command parameter identifies the parameter value (for example, the parameter “Letter (2)” indicates that the value field to select letter size in the Page Size command is “2”).

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Commands which are not supported (“ns”) by a printer are ignored.

# PCL 5 Technical Reference Manual Corrections

This section describes updates to the *PCL 5 Printer Language Technical Reference Manual* (5961-0509). Because this manual will not be updated, any changes to it are documented in this guide. Some errors have been identified in the *PCL 5 Printer Language Technical Reference Manual* since its printing. Those errors are identified and corrections are provided on this page.

## Chapter 4 PCL Job Control Commands

### Unit of Measure Command

In Figure 4-6 on page 4-18, the two escape sequences at the top should read “(E<sub>c</sub>&u100D) and (E<sub>c</sub>&u200D)” instead of “(E<sub>c</sub>&u100B) and (E<sub>c</sub>&u200B).”

## Chapter 8 PCL Font Selection

### Transparent Print Data Command

The last sentence in the note at the bottom of page 8-33 should read “Refer to the PCL 5 Comparison Guide, Appendix A, for character codes for the various symbol sets.” instead of “Refer to Appendix A for character codes for the various symbol sets.”

## Chapter 13 The PCL Print Model

### User-Defined Pattern Command

In Figure 13-10 on page 13-19, byte zero should read Format (20) instead of Format (0)

On page 13-21, Format (Byte 0) should read “0” for a 300 DPI user-defined pattern header and “20” for a resolution-specified user-defined pattern header.

**Table 1-1A. PCL 5 Feature Support Matrix**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4M	4Si 4Si Mx	4L	4ML 4P 4 MP	4PJ	4 Plus 4M Plus	4V 4 MV
<b>MISCELLANEOUS</b>												
Configuration (AppleTalk)	E <sub>c</sub> &b#W[data]	ns	ns	ns	ns	✓	✓	ns	✓	ns	✓	✓
<b>JOB CONTROL</b>												
Universal Exit/Start of PJJ (UEL)	E <sub>c</sub> %-12345X	ns	ns	✓	ns	✓	✓	✓	✓	✓	✓	✓
Reset	E <sub>c</sub> E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Copies	E <sub>c</sub> &l#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Simplex/Duplex Print	E <sub>c</sub> &l#S	ns	✓	✓	ns	ns	✓	ns	ns	ns	✓ <sup>1</sup>	ns
Left (Long-Edge) Offset Registration	E <sub>c</sub> &l#U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Top (Short-Edge) Offset Registration	E <sub>c</sub> &l#Z	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Of Measure	E <sub>c</sub> &u#D	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Mechanical Print Quality	E <sub>c</sub> *o#Q	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Media Type	E <sub>c</sub> &l#M	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Negative Motion	E <sub>c</sub> &a#N	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Self-Test	E <sub>c</sub> Z	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Paper Type	E <sub>c</sub> &n5WdBond	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n6WdPlain	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n6WdColor	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n7WdLabels	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n9WdRecycled	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n11WdLetterhead	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n10WdCardstock	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n11WdPrepunched	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n11WdPreprinted	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n13WdTransparency	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E <sub>c</sub> &n#WdCustomType <sup>2</sup>	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> Supported if duplex option is installed. <sup>2</sup> For custom paper, replace "CustomType" with the name of the paper, and replace "#" with the number of characters in the name, plus 1.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4SiMx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>PAGE CONTROL</b>												
Page (Job) Size	E <sub>c</sub> &l#A											
Executive (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Letter (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Legal (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ledger (6)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓
A5 (25)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
A4 (26)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A3 (27)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓
JIS B5 Paper (45)		ns	ns	ns	ns	ns	ns	ns	ns	✓	ns	✓
JIS B4 Paper (46)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓
Monarch Envelope (80)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Comm. 10 Envelope (81)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intl. DL Envelope (90)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intl. C5 Envelope (91)		✓	✓	ns	✓	✓	ns	✓	✓	✓	✓	✓
Intl. B5 Envelope (100)		ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Custom (101)		ns	ns	ns	ns	ns	ns	ns	✓	✓	ns	✓ <sup>2</sup>
Hagaki Postcard (71)		ns	ns	ns	ns	ns	ns	ns	ns	✓	ns	✓
Oufuku-Hagaki Postcard (72)		ns	ns	ns	ns	ns	ns	ns	ns	✓	ns	✓
Orientation	E <sub>c</sub> &l#O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Page Side Selection <sup>1</sup>	E <sub>c</sub> &a#G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Job Separation	E <sub>c</sub> &l1T	ns	ns	✓	ns	ns	ns	ns	ns	ns	ns	ns
Finish Mode	E <sub>c</sub> &b#F	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> On non-duplex printers, this command causes a conditional page eject. <sup>2</sup> The custom size is 11.7" x 17.7" on the HP LaserJet 4V/4MV printers.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4SiMx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>PAGE CONTROL (continued)</b>												
Paper (Media) Source	E <sub>c</sub> &l#H											
Eject Page (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Main (Front) Paper Source (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual (Top/Rear) Feed (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual Env. Feed (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alt. Paper Source (4)		ns	✓	✓	✓	✓	✓	ns	ns	ns	✓	✓
Opt. Large Source (5)		ns	ns	ns	ns	✓	✓	ns	ns	ns	✓	✓
Envelope Feeder (6)		ns	✓	✓	ns	✓	✓	ns	ns	ns	✓	ns
Auto Select (7)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Tray 1 (right side) (8)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
HCI Trays 2-21 (20-39)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output (Media) Bin	E <sub>c</sub> &l#G											
Automatic (0)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Destination Tray 1 (1)		ns	ns	✓	ns	ns	✓	ns	ns	ns	ns	ns
Destination Tray 2 (2)		ns	ns	✓	ns	ns	✓	ns	ns	ns	ns	ns
Destination Tray 3 (3)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Print Direction	E <sub>c</sub> &a#P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Character Text Path Dir.	E <sub>c</sub> &c#T	ns	ns	ns	ns	ns	ns	ns	ns	✓	ns	✓
Left Margin	E <sub>c</sub> &a#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Right Margin	E <sub>c</sub> &a#M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clear Horizontal Margins	E <sub>c</sub> 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Top Margin	E <sub>c</sub> &l#E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Text Length	E <sub>c</sub> &l#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perforation Skip	E <sub>c</sub> &l#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal Motion Index	E <sub>c</sub> &k#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Motion Index	E <sub>c</sub> &l#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Line Spacing	E <sub>c</sub> &l#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>ALPHANUMERIC ID (Media selection by type/PCL mass storage command)</b>												
Alphanumeric ID	E <sub>c</sub> &n#W[operation] [string]	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported. ns - Indicates a command is not supported.												



**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>CURSOR POSITIONING</b>												
Horizontal Position	E <sub>c</sub> &a#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *p#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &a#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Position	E <sub>c</sub> &a#R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *p#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &a#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Half Line Feed	E <sub>c</sub> =	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Line Termination	E <sub>c</sub> &k#G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Push/Pop Position	E <sub>c</sub> &f#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>FONT SELECTION</b>												
The Primary font printer commands in this table can be changed to Secondary by replacing the left parenthesis "(" in the command with a right parenthesis ")".												
Symbol Set (Primary)	E <sub>c</sub> (ID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing (Primary)	E <sub>c</sub> (s#P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pitch (Primary)	E <sub>c</sub> (s#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Height (Primary)	E <sub>c</sub> (s#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Style (Primary)	E <sub>c</sub> (s#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stroke Weight (Primary)	E <sub>c</sub> (s#B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Typeface (Primary)	E <sub>c</sub> (s#T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Font Selection By ID # (Pri.)	E <sub>c</sub> (#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Select Default Font (Primary)	E <sub>c</sub> (3@	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Underline	E <sub>c</sub> &d#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &d@	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transparent Print Data	E <sub>c</sub> &p#X[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Text Parsing Method	E <sub>c</sub> &t#P	ns	ns	ns	ns	ns	ns	ns	ns	✓	ns	✓
<b>FONT MANAGEMENT</b>												
Assign Font ID #	E <sub>c</sub> *c#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Font Control	E <sub>c</sub> *c#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>USER-DEFINED SYMBOL SET</b>												
Symbol Set ID Code	E <sub>c</sub> *c#R	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Define Symbol Set	E <sub>c</sub> (f#W[data]	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Symbol Set Control	E <sub>c</sub> *c#S	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>SOFT FONT CREATION</b>												
Font Descriptor	E <sub>c</sub> s#W[data]											
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Character Code	E <sub>c</sub> *c#E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Download Character	E <sub>c</sub> (s#W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>MACROS</b>												
Macro ID	E <sub>c</sub> &f#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Macro Control	E <sub>c</sub> &f#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>PRINT MODEL IMAGING</b>												
Source Transparency Mode	E <sub>c</sub> *v#N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pattern Transparency Mode	E <sub>c</sub> *v#O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Area Fill (Pattern) ID	E <sub>c</sub> *c#G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Select Current Pattern	E <sub>c</sub> *v#T											
Solid Black (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solid White (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP Shading Pattern (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3) (HP-hatch Pattern)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Logical Operation	E <sub>c</sub> *t#O	ns	ns	ns	ns	ns	ns	ns	✓	✓	✓	✓
Pixel Placement	E <sub>c</sub> *t#R	ns	ns	ns	ns	ns	ns	ns	✓	✓	✓	✓
<b>USER-DEFINED PATTERN</b>												
Define (Download) Pattern	E <sub>c</sub> *c#W[data]	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535												
Set Pattern Reference Point	E <sub>c</sub> *p#R	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern Control	E <sub>c</sub> *c#Q	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>RASTER GRAPHICS</b>												
Raster Resolution	E <sub>c</sub> *t#R											
75 Dots/Inch (75)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 Dots/Inch (100)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 Dots/Inch (150)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 Dots/Inch (200) <sup>1</sup>		ns	ns	ns	ns	✓	✓	ns	✓ <sup>2</sup>	✓	✓	✓
300 Dots/Inch (300)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
600 Dots/Inch (600) <sup>1</sup>		ns	ns	ns	ns	✓	✓	ns	✓ <sup>2</sup>	✓	✓	✓
Graphics Presentation	E <sub>c</sub> *r#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Source)	E <sub>c</sub> *r#T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Destination)	E <sub>c</sub> *t#V	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Raster Width (Source)	E <sub>c</sub> *r#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Width (Destination)	E <sub>c</sub> *t#H	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Scale Algorithm	E <sub>c</sub> *t#K	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Start Raster Graphics	E <sub>c</sub> *r#A											
At logical page left limit(0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
At CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
At logic. page left limit, scaling ON (2)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
At CAP, scaling ON (3)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Y Offset	E <sub>c</sub> *b#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Compression Mode	E <sub>c</sub> *b#M											
Unencoded (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Run-Length Encoded (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TIFF Encoded (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Delta Row Encoded (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mode 5 Adaptive (5)		ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Replacement Delta Row (9)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Transfer Raster (Row/Block)	E <sub>c</sub> *b#W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transfer Raster (Plane)	E <sub>c</sub> *b#V[data]	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
End Graphics												
Version B	E <sub>c</sub> *rB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Version C (Preferred)	E <sub>c</sub> *rC	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported. ns - Indicates a command is not supported.												
<sup>1</sup> Supported if printer resolution is 600 dpi.												
<sup>2</sup> The 4ML printer does not support 200 or 600 dpi operation.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>RECTANGULAR AREA FILL</b>												
Horizontal Rectangle Size	E <sub>c</sub> *c#A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *c#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Rectangle Size	E <sub>c</sub> *c#B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *c#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pattern ID (Area Fill ID)	E <sub>c</sub> *c#G											
1-100 for Shading		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1-6 for Cross-hatch		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
0-32767 for User-defined		ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Fill Rectangle Area	E <sub>c</sub> *c#P											
Black (solid) (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(Solid) White (erase) (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shaded (gray) (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		ns	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓
Current Pattern (5)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>STATUS READBACK</b>												
Set Status Readback Location Type	E <sub>c</sub> *s#T	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Set Status Readback Location Unit	E <sub>c</sub> *s#U	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Inquire Status Readback Entity	E <sub>c</sub> *s#I	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Free Space	E <sub>c</sub> *s1M	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Flush All Pages	E <sub>c</sub> &r#F	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Echo	E <sub>c</sub> *s#X	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4SiMx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>PICTURE FRAME (for Vector Graphics)</b>												
Picture Frame Horiz. Size	E <sub>c</sub> *c#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Picture Frame Vert. Size	E <sub>c</sub> *c#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Picture Frame Anchor Point	E <sub>c</sub> *c0T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Horiz. Plot Size	E <sub>c</sub> *c#K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Vert. Plot Size	E <sub>c</sub> *c#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enter HP-GL/2	E <sub>c</sub> *c#B											
_Stand-alone plotter (-1)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
_Previous HP-GL (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
_Current PCL CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
_Current PCL coordinates and old HP-GL/2 (2)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
_Current PCL coordinates and current CAP (3)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Enter PCL Mode	E <sub>c</sub> *c#A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>PROGRAMMING HINTS</b>												
Display Functions												
On	E <sub>c</sub> Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Off	E <sub>c</sub> Z	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
End-Of-Line Wrap	E <sub>c</sub> &s#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>PCL 5 COLOR COMMANDS</b>												
Assign Color Index	E <sub>c</sub> *v#I	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Color Component 1	E <sub>c</sub> *v#A	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Color Component 2	E <sub>c</sub> *v#B	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Color Component 3	E <sub>c</sub> *v#C	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Color Lookup Tables	E <sub>c</sub> *t#W[data]	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Configure Image Data	E <sub>c</sub> *v#W[data]	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Download Dither Matrix	E <sub>c</sub> *m#W	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Foreground Color	E <sub>c</sub> *v#S	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Gamma Correction	E <sub>c</sub> *t#I	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Monochrome Print Mode	E <sub>c</sub> &b#M	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Palette Control ID	E <sub>c</sub> &p#I	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Palette Control	E <sub>c</sub> &p#C	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Push/Pop Palette	E <sub>c</sub> *p#P	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Render Algorithm	E <sub>c</sub> *t#J											
Range: 0 - 8		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Range: 9 - 10		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Range: 11 - 14		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Range: 15 - 19		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Select Palette	E <sub>c</sub> &p#S	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Set Viewing Illuminant	E <sub>c</sub> *i#W[data]	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Simple Color	E <sub>c</sub> *r#U	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1A. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	III	IIID	IIISi	IIIP	4 4M	4Si 4Si Mx	4L	4ML 4P 4MP	4PJ	4 Plus 4M Plus	4V 4MV
<b>HP-GL/2 GRAPHICS</b>												
HP-GL/2—Commands listed in Table A-2 except as shown below		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advance Full Page	PG	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Bezier	BR, BZ	ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Begin Plot	BP	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chord Tolerance Mode	CT	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
(Relative) Color Range	CR	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Download Character	DL	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Fill Type	FT											
Odd/Even		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Non-Zero Winding		ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Frame Advance	FR	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Label origin	LO											
1-9 / 11-19		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21		ns	ns	ns	ns	✓	✓	✓	✓	✓	✓	✓
Media Type	MT	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Merge Control	MC	ns	ns	ns	ns	ns	ns	ns	✓	✓	✓	✓
Number of Pens	NP	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output Error	OE	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output Hardcopy Limits	OH	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output Identification	OI	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output P1 and P2	OP	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Output Status	OS	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Pen Color Assignment	PC	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Pixel Placement	PP	ns	ns	ns	ns	ns	ns	ns	✓	✓	✓	✓
Plot Size	PS	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Quality Level	QL	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Replot	RP	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1B. PCL 5 Feature Support Matrix**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5 MP	6P 6 MP	5Si 5Si Mx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>MISCELLANEOUS</b>												
Configuration (AppleTalk)	E_c&b#W[data]	✓	✓	✓	ns	ns	✓	✓	✓	✓	✓	✓
<b>JOB CONTROL</b>												
Universal Exit/Start of PJL (UEL)	E_c%-12✓45X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reset	E_cE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Copies	E_c&l#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Simplex/Duplex Print	E_c&l#S	ns	ns	ns	ns	ns	ns	ns	✓	✓	ns	ns
Left (Long-Edge) Offset Registration	E_c&l#U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Top (Short-Edge) Offset Registration	E_c&l#Z	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Unit Of Measure	E_c&u#D	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	✓
Mechanical Print Quality	E_c*o#Q	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Media Type	E_c&l#M	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Negative Motion	E_c&a#N	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Self-Test	E_cZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Paper Type	E_c&n5WdBond	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n6WdPlain	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n6WdColor	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n7WdLabels	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n9WdRecycled	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n11WdLetterhead	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n10WdCardstock	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n11WdPrepunched	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n11WdPreprinted	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n13WdTransparency	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
	E_c&n#WdCustomType <sup>1</sup>	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> For custom paper, replace "CustomType" with the name of the paper, and replace "#" with the number of characters in the name, plus 1.												



**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>PAGE CONTROL</b>												
Page (Job) Size	E <sub>c</sub> &l#A											
Executive (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	ns	ns
Letter (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Legal (3)		✓	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ledger (6)		✓ <sup>4</sup>	✓ <sup>1</sup>	ns	ns	ns	ns	ns	✓	ns	ns	ns
A5 (25)		ns	ns	ns	ns	ns	ns	✓	ns	✓	ns	ns
A4 (26)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
A3 (27)		✓	✓ <sup>1</sup>	ns	ns	ns	ns	ns	✓	ns	ns	ns
JIS B5 Paper (45)		ns	ns	✓	✓	ns	ns	✓	✓	✓	ns	ns
JIS B4 Paper (46)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Monarch Envelope (80)		ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Com-10 Envelope (81)		ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intl. DL Envelope (90)		ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intl. C5 Envelope (91)		ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intl. B5 Envelope (100)		ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Custom (101)		ns	ns	✓	✓	ns <sup>2</sup>	✓	✓	✓ <sup>3</sup>	✓	ns	ns
Hagaki Postcard (71)		ns	ns	✓	✓	ns	ns	ns	ns	ns	ns	ns
Oufuku-Hagaki Postcard (72)		ns	ns	✓	✓	ns	ns	✓	ns	✓	ns	ns
Orientation	E <sub>c</sub> &l#O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Page Side Selection <sup>4</sup>	E <sub>c</sub> &a#G	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Job Separation	E <sub>c</sub> &l1T	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Finish Mode	E <sub>c</sub> &b#F	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> Black & White only <sup>2</sup> For the HP LaserJet 5L printer, the printer driver sets the paper size to legal (3) when "custom" is selected. <sup>3</sup> The custom size is 11.7" x 17.7" on HP LaserJet 5Si, 5SiMx, and 5Si Mopier printers. <sup>4</sup> On non-duplex printers, this command causes a conditional page eject.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5MP	6P 6MP	5Si 5Si Mx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>PAGE CONTROL (continued)</b>												
Paper (Media) Source	E <sub>c</sub> &l#H											
Eject Page (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Main (Front) Paper Source (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual (Top/Rear) Feed (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Manual Env. Feed (3)		ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Alt. Paper Source (4)		✓	✓	ns	ns	ns	✓	✓	✓	✓	ns	ns
Optional Source (5)		✓	✓	ns	ns	ns	ns	ns	✓	✓	✓	ns
Envelope Feeder (6)		ns	ns	ns	ns	ns	ns	ns	✓	✓	ns	ns
Auto Select (7)		ns	ns	ns	ns	ns	ns	ns	✓	✓	ns	✓
Tray 1 (right side) (8)		ns	ns	ns	ns	ns	ns	ns	✓	ns	ns	ns
HCI Trays 2-21 (20-39)		ns	ns	ns	ns	ns	ns	ns	✓	ns	ns	ns
Output (Media) Bin	E <sub>c</sub> &l#G											
Automatic (0)		ns	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Destination Tray 1 (1)		✓	✓	ns	ns	ns	ns	ns	✓	✓	ns	ns
Destination Tray 2		✓	✓	ns	ns	ns	ns	ns	✓	✓	ns	ns
Destination Tray 3		ns	ns	ns	ns	ns	ns	ns	✓	ns	ns	ns
Print Direction	E <sub>c</sub> &a#P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Character Text Path Dir.	E <sub>c</sub> &c#T	ns	ns	✓	✓	ns	✓	✓	✓	✓	ns	ns
Left Margin	E <sub>c</sub> &a#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Right Margin	E <sub>c</sub> &a#M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clear Horizontal Margins	E <sub>c</sub> 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Top Margin	E <sub>c</sub> &l#E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Text Length	E <sub>c</sub> &l#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perforation Skip	E <sub>c</sub> &l#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal Motion Index	E <sub>c</sub> &k#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Motion Index	E <sub>c</sub> &l#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Line Spacing	E <sub>c</sub> &l#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>ALPHANUMERIC ID (Media selection by type/PCL mass storage command)</b>												
Alphanumeric ID	E <sub>c</sub> &n#W[operation] [string]	ns	ns	ns	ns	ns	ns	ns	✓	✓	ns	ns
✓ Indicates a command is supported. ns - Indicates a command is not supported.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5 MP	6P 6 MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>CURSOR POSITIONING</b>												
Horizontal Position	Ec&a#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ec*p#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ec&a#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Position	Ec&a#R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ec*p#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ec&a#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Half Line Feed	Ec=	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Line Termination	Ec&k#G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Push/Pop Position	Ec&f#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>FONT SELECTION</b>												
The Primary font commands in this table can be changed to Secondary by replacing the left parenthesis "(" in the command with a right parenthesis ")".												
Symbol Set (Primary)	Ec(ID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing (Primary)	Ec(s#P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pitch (Primary)	Ec(s#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Height (Primary)	Ec(s#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Style (Primary)	Ec(s#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stroke Weight (Primary)	Ec(s#B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Typeface (Primary)	Ec(s#T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Font Selection By ID # (Pri.)	Ec(#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Select Default Font (Primary)	Ec(3@	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Underline	Ec&d#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Ec&d@	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transparent Print Data	Ec&p#X[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Text Parsing Method	Ec&t#P	ns	ns	✓	✓	ns	✓	✓	✓	✓	✓ <sup>1</sup>	✓
<b>FONT MANAGEMENT</b>												
Assign Font ID #	Ec*c#D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Font Control	Ec*c#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>USER-DEFINED SYMBOL SET</b>												
Symbol Set ID Code	Ec*c#R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Define Symbol Set	Ec(##W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Symbol Set Control	Ec*c#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported. ns - Indicates a command is not supported.												
<sup>1</sup> Available in code versions "B" and "C" only (see the DeskJet 1200C section near the end of this chapter).												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5 MP	6P 6 MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>SOFT FONT CREATION</b>												
Font Descriptor	E <sub>c</sub> s#W[data]											
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535							✓	✓	✓	✓		
Character Code	E <sub>c</sub> *c#E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Download Character	E <sub>c</sub> (s#W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>MACROS</b>												
Macro ID	E <sub>c</sub> &f#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Macro Control	E <sub>c</sub> &f#X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>PRINT MODEL IMAGING</b>												
Source Transparency Mode	E <sub>c</sub> *v#N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pattern Transparency Mode	E <sub>c</sub> *v#O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Area Fill (Pattern) ID	E <sub>c</sub> *c#G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Select Current Pattern	E <sub>c</sub> *v#T											
Solid Black (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solid White (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP Shading Pattern (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3) (HP-hatch Pattern)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Logical Operation	E <sub>c</sub> *l#O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pixel Placement	E <sub>c</sub> *l#R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>USER-DEFINED PATTERN</b>												
Define (Download) Pattern	E <sub>c</sub> *c#W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535							✓	✓	✓	✓		
Set Pattern Reference Point	E <sub>c</sub> *p#R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern Control	E <sub>c</sub> *c#Q	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5 MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>RASTER GRAPHICS</b>												
Raster Resolution	E <sub>c</sub> *t#R											
75 Dots/Inch (75)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 Dots/Inch (100)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 Dots/Inch (150)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 Dots/Inch (200) <sup>1</sup>		ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	✓
300 Dots/Inch (300)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
600 Dots/Inch (600) <sup>1</sup>		ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	✓
Graphics Presentation	E <sub>c</sub> *r#F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Source)	E <sub>c</sub> *r#T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Destination)	E <sub>c</sub> *t#V	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Raster Width (Source)	E <sub>c</sub> *r#S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Raster Width (Destination)	E <sub>c</sub> *t#H	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Scale Algorithm	E <sub>c</sub> *t#K	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Start Raster Graphics	E <sub>c</sub> *r#A											
At logical page left limit(0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
At CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
At logic. page left limit, scaling ON (2)		✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
At CAP, scaling ON (3)		✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Y Offset	E <sub>c</sub> *b#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Compression Mode	E <sub>c</sub> *b#M											
Unencoded (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Run-Length Encoded (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TIFF Encoded (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Delta Row Encoded (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mode 5 Adaptive (5)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Replacement Delta Row (9)		ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓
Transfer Raster (Row/Block)	E <sub>c</sub> *b#W[data]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transfer Raster (Plane)	E <sub>c</sub> *b#V[data]	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
End Graphics												
Version B	E <sub>c</sub> *rB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Version C (Preferred)	E <sub>c</sub> *rC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported. ns - Indicates a command is not supported.												
<sup>1</sup> Supported if printer resolution is 600 dpi.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5 MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>RECTANGULAR AREA FILL</b>												
Horizontal Rectangle Size	E <sub>c</sub> *c#A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *c#H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Rectangle Size	E <sub>c</sub> *c#B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *c#V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pattern ID (Area Fill ID)	E <sub>c</sub> *c#G											
1-100 for Shading		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1-6 for Cross-hatch		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
0-32767 for User-defined		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fill Rectangle Area	E <sub>c</sub> *c#P											
Black (solid) (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(Solid) White (erase) (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shaded (gray) (2)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Current Pattern (5)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>STATUS READBACK</b>												
Set Status Readback Location Type	E <sub>c</sub> *s#T	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Set Status Readback Location Unit	E <sub>c</sub> *s#U	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Inquire Status Readback Entity	E <sub>c</sub> *s#I	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Free Space	E <sub>c</sub> *s1M	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
Flush All Pages	E <sub>c</sub> &r#F	ns	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Echo	E <sub>c</sub> *s#X	ns	ns	✓	✓	✓	✓	✓	✓	✓	ns	ns
✓ Indicates a command is supported. ns - Indicates a command is not supported.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>PICTURE FRAME (for Vector Graphics)</b>												
Picture Frame Horiz. Size	E <sub>c</sub> *c#X	✓	ns	✓	✓	✓	✓	✓	✓	✓	✓	✓
Picture Frame Vert. Size	E <sub>c</sub> *c#Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Set Picture Frame Anchor Point	E <sub>c</sub> *c0T	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Horiz. Plot Size	E <sub>c</sub> *c#K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Vert. Plot Size	E <sub>c</sub> *c#L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enter HP-GL/2	E <sub>c</sub> %#B											
Stand-alone plotter (-1)		ns	ns	ns	ns	ns	ns	ns	ns	ns	3	ns
Previous HP-GL (0)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Current PCL CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Current PCL coordinates and old HP-GL/2 (2)		ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Current PCL coordinates and current CAP (3)		ns	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Enter PCL Mode	E <sub>c</sub> %#A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>PROGRAMMING HINTS</b>												
Display Functions												
On	E <sub>c</sub> Y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Off	E <sub>c</sub> Z	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
End-Of-Line Wrap	E <sub>c</sub> &s#C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												

**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>PCL 5 COLOR COMMANDS</b>												
Assign Color Index	E <sub>c</sub> *v#I	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Color Component 1	E <sub>c</sub> *v#A	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Color Component 2	E <sub>c</sub> *v#B	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Color Component 3	E <sub>c</sub> *v#C	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Color Lookup Tables	E <sub>c</sub> *I#W[data]	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Configure Image Data	E <sub>c</sub> *v#W[data]	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Download Dither Matrix	E <sub>c</sub> *m#W	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Foreground Color	E <sub>c</sub> *v#S	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Gamma Correction	E <sub>c</sub> *t#I	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Monochrome Print Mode	E <sub>c</sub> &b#M	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Palette Control ID	E <sub>c</sub> &p#I	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Palette Control	E <sub>c</sub> &p#C	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Push/Pop Palette	E <sub>c</sub> *p#P	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Render Algorithm	E <sub>c</sub> *t#J											
Range: 0 - 8		✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Range: 9 - 10		✓	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓
Range: 11 - 14		✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Range: 15 - 19		ns	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Select Palette	E <sub>c</sub> &p#S	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Set Viewing Illuminant	E <sub>c</sub> *I#W[data]	✓	✓	ns	ns	ns	ns	ns	ns	ns	ns	ns
Simple Color	E <sub>c</sub> *t#U	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												



**Table 1-1B. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	Color LJ	Color LJ 5, 5M	4LJ Pro	4LC	5L 6L 6L Gold	5P 5MP	6P 6MP	5Si 5SiMx Mopier	5 5M	Desk Jet 1200C	Desk Jet 1600C
<b>HP-GL/2 GRAPHICS</b>												
HP-GL/2—Commands listed in Table A-2 except as shown below		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advance Full Page	PG	ns	ns	ns	ns	ns	ns	ns	ns	✓	✓ <sup>1</sup>	ns
Bezier	BR, BZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Begin Plot	BP	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Chord Tolerance Mode	CT	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
(Relative) Color Range	CR	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Download Character	DL	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Fill Type	FT											
Odd/Even		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Non-Zero Winding		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Frame Advance	FR	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Label origin	LO											
1-9 / 11-19		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Media Type	MT	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Merge Control	MC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Number of Pens	NP	✓	✓	ns	ns	ns	ns	ns	ns	ns	✓	✓
Output Error	OE	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Output Hardcopy Limits	OH	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Output Identification	OI	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Output P1 and P2	OP	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Output Status	OS	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Pen Color Assignment	PC	3	3	ns	ns	ns	ns	ns	ns	ns	✓	3
Pixel Placement	PP	3	3	3	3	3	3	3	3	3	✓	3
Plot Size	PS	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Quality Level	QL	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
Replot	RP	ns	ns	ns	ns	ns	ns	ns	ns	ns	✓ <sup>1</sup>	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported.												
<sup>1</sup> Supported in stand-alone HP-GL/2 Mode only (DeskJet 1200)												

**Table 1-1C. PCL 5 Feature Support Matrix**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>MISCELLANEOUS</b>									
Configuration (AppleTalk)	E <sub>c</sub> &b#V[data]	✓	✓	✓	✓	✓	✓	✓	ns
<b>JOB CONTROL</b>									
Universal Exit/Start of P <sub>J</sub> L (UEL)	E <sub>c</sub> %-12345X	✓	✓	✓	✓	✓	✓	✓	✓
Reset	E <sub>c</sub> E	✓	✓	✓	✓	✓	✓	✓	✓
Number of Copies	E <sub>c</sub> &t#X	✓	✓	✓	✓	✓	✓	✓	✓
Simplex/Duplex Print	E <sub>c</sub> &t#S	✓	✓	✓	✓	✓	✓	✓	✓
Left (Long-Edge) Offset Registration	E <sub>c</sub> &t#U	✓	✓	✓	✓	✓	✓	✓	✓
Top (Short-Edge) Offset Registration	E <sub>c</sub> &t#Z	✓	✓	✓	✓	✓	✓	✓	✓
Unit Of Measure	E <sub>c</sub> &u#D	✓	✓	✓	✓	✓	✓	✓	✓
Mechanical Print Quality	E <sub>c</sub> *o#Q	ns	ns	ns	ns	ns	ns	ns	ns
Media Type	E <sub>c</sub> &t#M	ns	ns	3	ns	3	ns	ns	✓
Negative Motion	E <sub>c</sub> &a#N	ns	ns	ns	ns	ns	ns	ns	ns
Self-Test	E <sub>c</sub> Z	✓	✓	✓	✓	✓	✓	✓	✓
Paper Type	E <sub>c</sub> &n5WdBond	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n6WdPlain	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n6WdColor	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n6WdRough	ns	ns	✓	✓	✓	✓	✓	ns
	E <sub>c</sub> &n6WdHeavy	ns	ns	ns	✓	ns	ns	ns	✓
	E <sub>c</sub> &n6WdGloss	ns	ns	ns	✓	ns	ns	ns	✓
	E <sub>c</sub> &n7WdLabels	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n7WdVellum	ns	ns	ns	✓	✓	ns	ns	ns
	E <sub>c</sub> &n8WdDefault	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n9WdRecycled	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n11WdLetterhead	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n11WdCard Stock	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n10WdCardstock	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n11WdPrepunched	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n11WdPreprinted	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n13WdTransparency	ns	ns	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &n#WdCustomType <sup>1</sup>	ns	ns	✓	ns	✓	✓	✓	ns
✓ Indicates a command is supported. ns - Indicates a command is not supported.									
<sup>1</sup> For custom paper, replace "CustomType" with the name of the paper, and replace "#" with the number of characters in the name, plus 1.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>PAGE CONTROL</b>									
Page (Job) Size	E <sub>c</sub> &t#A								
Executive (1)		✓	✓	✓	✓	✓	✓	✓	✓
Letter (2)		✓	✓	✓	✓	✓	✓	✓	✓
Legal (3)		✓	✓	✓	✓	✓	✓	✓	✓
Ledger (6)		ns	ns	ns	ns	ns	ns	ns	✓
JISExec (Foolscap) (10)			✓						
A5 (25)		✓	✓	✓	✓	✓	✓	✓	✓
A4 (26)		✓	✓	✓	✓	✓	✓	✓	✓
A3 (27)		ns	ns	ns	ns	ns	ns	ns	✓
JIS B5 Paper (45)		✓	✓	✓	✓	✓	✓	✓	✓
JIS B4 Paper (46)		ns	ns	ns	✓	✓	ns	ns	✓
Monarch Envelope (80)		✓	✓	✓	✓	✓	✓	✓	✓
Com-10 Envelope (81)		✓	✓	✓	✓	✓	✓	✓	✓
Intl. DL Envelope (90)		✓	✓	✓	✓	✓	✓	✓	✓
Intl. C5 Envelope (91)		✓	✓	✓	✓	✓	✓	✓	✓
Intl. B5 Envelope (100)		✓	✓	✓	✓	✓	✓	✓	✓
Custom (101) <sup>1</sup>		✓	✓	✓ <sup>1</sup>	✓	✓	✓	✓	✓
Hagaki Postcard (71)		ns	✓	ns	✓	ns	ns	ns	ns
Oufuku-Hagaki Postcard (72)		ns	✓	ns	✓	ns	ns	ns	ns
Orientation	E <sub>c</sub> &t#O	✓	✓	✓	✓	✓	✓	✓	✓
Page Side Selection <sup>2</sup>	E <sub>c</sub> &a#G	✓	✓	✓	✓	✓	✓	✓	✓
Job Separation	E <sub>c</sub> &l1T	ns	ns	ns	ns	ns	ns	ns	ns
Finish Mode	E <sub>c</sub> &b#F	ns	ns	ns	✓	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> For some HP LaserJet printers, the custom size is configurable via the control panel. <sup>2</sup> On non-duplex printers, this command causes a conditional page eject.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>PAGE CONTROL (continued)</b>									
Paper (Media) Source	$E_c \& t \# H$								
In Tray (current tray)(0)		✓	✓	✓	✓	✓	✓	✓	✓
1st Cassette (Main Paper Src.) (1)		✓	✓	✓	✓	✓	✓	✓	✓
Manual Feed Tray (2)		✓	✓	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓	✓	✓
Manual Feed Tray (3)		✓	✓	✓	ns	✓ <sup>2</sup>	✓	✓	✓
MultiPurpose Tray (4)		✓	✓	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓	✓	✓
2nd Cassette (Opt. Source) (5)		✓	✓	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓	✓	✓
Envelope Feeder (6)		✓	✓	✓	ns	✓ <sup>2</sup>	✓	✓	✓
Auto Select (7)		✓	✓	✓	✓	✓ <sup>2</sup>	✓	✓	✓
3rd Cassette(8)		ns	✓	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	ns	ns	✓
HCI Trays 2-21 (20-39)		ns	ns	✓ <sup>3</sup>	✓	✓ <sup>2</sup>	✓	✓	✓
Output (Media) Bin	$E_c \& t \# G$								
Automatic (0)		ns	ns	ns <sup>2</sup>	ns <sup>2</sup>	ns <sup>2</sup>	ns	ns	ns
Destination Tray 1 (1)		✓	✓	ns <sup>2</sup>	ns <sup>2</sup>	ns <sup>2</sup>	✓	✓	✓
Destination Tray 2 (2)		✓	✓	ns <sup>2</sup>	ns <sup>2</sup>	ns <sup>2</sup>	✓	✓	✓
Destination Tray 3 (3)		ns	ns	ns <sup>2</sup>	ns <sup>2</sup>	ns <sup>2</sup>	ns	ns	ns
Print Direction	$E_c \& a \# P$	✓	✓	✓	✓	✓	✓	✓	✓
Character Text Path Dir.	$E_c \& c \# T$	✓	✓	✓	✓	✓	✓	✓	✓
Left Margin	$E_c \& a \# L$	✓	✓	✓	✓	✓	✓	✓	✓
Right Margin	$E_c \& a \# M$	✓	✓	✓	✓	✓	✓	✓	✓
Clear Horizontal Margins	$E_c 9$	✓	✓	✓	✓	✓	✓	✓	✓
Top Margin	$E_c \& t \# E$	✓	✓	✓	✓	✓	✓	✓	✓
Text Length	$E_c \& t \# F$	✓	✓	✓	✓	✓	✓	✓	✓
Perforation Skip	$E_c \& t \# L$	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal Motion Index	$E_c \& k \# H$	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Motion Index	$E_c \& t \# C$	✓	✓	✓	✓	✓	✓	✓	✓
Line Spacing	$E_c \& t \# D$	✓	✓	✓	✓	✓	✓	✓	✓
<b>ALPHANUMERIC ID (Media selection by type/PCL mass storage command)</b>									
Alphanumeric ID	$E_c \& n \# W [operation] [string]$	✓	✓	✓	✓ <sup>1</sup>	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> The LaserJet 4500 series printers support any Alphanumeric ID command that does not reference anything stored on a hard disk. <sup>2</sup> For these printers, see the printer-specific sections in Chapter 2. <sup>3</sup> The LaserJet 4000 series printers support HCI trays 2 – 41 (20 – 59)									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>CURSOR POSITIONING</b>									
Horizontal Position	E <sub>c</sub> &a#C	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *p#X	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &a#H	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Position	E <sub>c</sub> &a#R	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> *p#Y	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &a#V	✓	✓	✓	✓	✓	✓	✓	✓
Half Line Feed	E <sub>c</sub> =	✓	✓	✓	✓	✓	✓	✓	✓
Line Termination	E <sub>c</sub> &k#G	✓	✓	✓	✓	✓	✓	✓	✓
Push/Pop Position	E <sub>c</sub> &f#S	✓	✓	✓	✓	✓	✓	✓	✓
<b>FONT SELECTION</b>									
The Primary font commands in this table can be changed to Secondary by replacing the left parenthesis "(" in the command with a right parenthesis ")".									
Symbol Set (Primary)	E <sub>c</sub> (ID	✓	✓	✓	✓	✓	✓	✓	✓
Spacing (Primary)	E <sub>c</sub> (s#P	✓	✓	✓	✓	✓	✓	✓	✓
Pitch (Primary)	E <sub>c</sub> (s#H	✓	✓	✓	✓	✓	✓	✓	✓
Height (Primary)	E <sub>c</sub> (s#V	✓	✓	✓	✓	✓	✓	✓	✓
Style (Primary)	E <sub>c</sub> (s#S	✓	✓	✓	✓	✓	✓	✓	✓
Stroke Weight (Primary)	E <sub>c</sub> (s#B	✓	✓	✓	✓	✓	✓	✓	✓
Typeface (Primary)	E <sub>c</sub> (s#T	✓	✓	✓	✓	✓	✓	✓	✓
Font Selection By ID # (Pri.)	E <sub>c</sub> (#X	✓	✓	✓	✓	✓	✓	✓	✓
Select Default Font (Primary)	E <sub>c</sub> (3@	✓	✓	✓	✓	✓	✓	✓	✓
Underline	E <sub>c</sub> &d#D	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>c</sub> &d@	✓	✓	✓	✓	✓	✓	✓	✓
Transparent Print Data	E <sub>c</sub> &p#X[data]	✓	✓	✓	✓	✓	✓	✓	✓
Text Parsing Method	E <sub>c</sub> &t#P	✓	✓	✓	✓	✓	✓	✓	✓
<b>FONT MANAGEMENT</b>									
Assign Font ID #	E <sub>c</sub> *c#D	✓	✓	✓	✓	✓	✓	✓	✓
Font Control	E <sub>c</sub> *c#F	✓	✓	✓	✓	✓	✓	✓	✓
<b>USER-DEFINED SYMBOL SET</b>									
Symbol Set ID Code	E <sub>c</sub> *c#R	✓	✓	✓	✓	✓	✓	✓	✓
Define Symbol Set	E <sub>c</sub> (#W[data]	✓	✓	✓	✓	✓	✓	✓	✓
Symbol Set Control	E <sub>c</sub> *c#S	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>SOFT FONT CREATION</b>									
Font Descriptor	E <sub>C</sub> s#W[data]								
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535				✓				✓	ns
Character Code	E <sub>C</sub> *c#E	✓	✓	✓	✓	✓	✓	✓	✓
Download Character	E <sub>C</sub> (s#W[data]	✓	✓	✓	✓	✓	✓	✓	✓
<b>MACROS</b>									
Macro ID	E <sub>C</sub> &f#Y	✓	✓	✓	✓	✓	✓	✓	✓
Macro Control	E <sub>C</sub> &f#X	✓	✓	✓	✓	✓	✓	✓	✓
<b>PRINT MODEL IMAGING</b>									
Source Transparency Mode	E <sub>C</sub> *v#N	✓	✓	✓	✓	✓	✓	✓	✓
Pattern Transparency Mode	E <sub>C</sub> *v#O	✓	✓	✓	✓	✓	✓	✓	✓
Area Fill (Pattern) ID	E <sub>C</sub> *c#G	✓	✓	✓	✓	✓	✓	✓	✓
Select Current Pattern	E <sub>C</sub> *v#T								
Solid Black (0)		✓	✓	✓	✓	✓	✓	✓	✓
Solid White (1)		✓	✓	✓	✓	✓	✓	✓	✓
HP Shading Pattern (2)		✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3) (HP-hatch Pattern)		✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		✓	✓	✓	✓	✓	✓	✓	✓
Logical Operation	E <sub>C</sub> *ℓ#O	✓	✓	✓	✓	✓	✓	✓	✓
Pixel Placement	E <sub>C</sub> *ℓ#R	✓	✓	✓	✓	✓	✓	✓	✓
<b>USER-DEFINED PATTERN</b>									
Define (Download) Pattern	E <sub>C</sub> *c#W[data]	✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 32767		✓	✓	✓	✓	✓	✓	✓	✓
Range: 0 - 65535				✓				✓	ns
Set Pattern Reference Point	E <sub>C</sub> *p#R	✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern Control	E <sub>C</sub> *c#Q	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>RASTER GRAPHICS</b>									
Raster Resolution	E <sub>C</sub> *t#R								
75 Dots/Inch (75)		✓	✓	✓	✓	✓	✓	✓	✓
100 Dots/Inch (100)		✓	✓	✓	✓	✓	✓	✓	✓
150 Dots/Inch (150)		✓	✓	✓	✓	✓	✓	✓	✓
200 Dots/Inch (200) <sup>1</sup>		✓	✓	✓	✓	✓	✓	✓	✓
300 Dots/Inch (300)		✓	✓	✓	✓	✓	✓	✓	✓
600 Dots/Inch (600) <sup>1</sup>		✓	✓	✓	✓	✓	✓	✓	✓
Graphics Presentation	E <sub>C</sub> *t#F	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Source)	E <sub>C</sub> *t#T	✓	✓	✓	✓	✓	✓	✓	✓
Raster Height (Destination)	E <sub>C</sub> *t#V	ns	ns	ns	3	ns	ns	ns	3
Raster Width (Source)	E <sub>C</sub> *t#S	✓	✓	✓	✓	✓	✓	✓	✓
Raster Width (Destination)	E <sub>C</sub> *t#H	ns	ns	ns	✓	ns	ns	ns	✓
Scale Algorithm	E <sub>C</sub> *t#K	ns	ns	ns	ns	ns	ns	ns	✓
Start Raster Graphics	E <sub>C</sub> *t#A								
At logical page left limit(0)		✓	✓	✓	✓	✓	✓	✓	✓
At CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓
At logic. page left limit, scaling ON (2)		ns	ns	ns	✓	ns	ns	ns	✓
At CAP, scaling ON (3)		ns	ns	ns	✓	ns	ns	ns	✓
Y Offset	E <sub>C</sub> *b#Y	✓	✓	✓	✓	✓	✓	✓	✓
Set Compression Mode	E <sub>C</sub> *b#M								
Unencoded (0)		✓	✓	✓	✓	✓	✓	✓	✓
Run-Length Encoded (1)		✓	✓	✓	✓	✓	✓	✓	✓
TIFF Encoded (2)		✓	✓	✓	✓	✓	✓	✓	✓
Delta Row Encoded (3)		✓	✓	✓	✓	✓	✓	✓	✓
Mode 5 Adaptive (5)		✓	✓	✓	✓	✓	✓	✓	✓
Replacement Delta Row (9)		ns	ns	ns	ns	ns	ns	ns	ns
Transfer Raster (Row/Block)	E <sub>C</sub> *b#W[data]	✓	✓	✓	✓	✓	✓	✓	✓
Transfer Raster (Plane)	E <sub>C</sub> *b#V[data]	ns	ns	ns	3	ns	ns	ns	✓
End Graphics									
Version B	E <sub>C</sub> *rB	✓	✓	✓	✓	✓	✓	✓	✓
Version C (Preferred)	E <sub>C</sub> *rC	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported. ns - Indicates a command is not supported.									
<sup>1</sup> Supported if printer resolution is 600 dpi.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>RECTANGULAR AREA FILL</b>									
Horizontal Rectangle Size	E <sub>C</sub> *c#A	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>C</sub> *c#H	✓	✓	✓	✓	✓	✓	✓	✓
Vertical Rectangle Size	E <sub>C</sub> *c#B	✓	✓	✓	✓	✓	✓	✓	✓
	E <sub>C</sub> *c#V	✓	✓	✓	✓	✓	✓	✓	✓
Pattern ID (Area Fill ID)	E <sub>C</sub> *c#G								
1-100 for Shading		✓	✓	✓	✓	✓	✓	✓	✓
1-6 for Cross-hatch		✓	✓	✓	✓	✓	✓	✓	✓
0-32767 for User-defined		✓	✓	✓	✓	✓	✓	✓	✓
Fill Rectangle Area	E <sub>C</sub> *c#P								
Black (solid) (0)		✓	✓	✓	✓	✓	✓	✓	✓
(Solid) White (erase) (1)		✓	✓	✓	✓	✓	✓	✓	✓
Shaded (gray) (2)		✓	✓	✓	✓	✓	✓	✓	✓
Cross-hatch Pattern (3)		✓	✓	✓	✓	✓	✓	✓	✓
User-defined Pattern (4)		✓	✓	✓	✓	✓	✓	✓	✓
Current Pattern (5)		✓	✓	✓	✓	✓	✓	✓	✓
<b>STATUS READBACK</b>									
Set Status Readback Location Type	E <sub>C</sub> *s#T	✓	✓	✓	✓	✓	✓	✓	✓
Set Status Readback Location Unit	E <sub>C</sub> *s#U	✓	✓	✓	✓	✓	✓	✓	✓
Inquire Status Readback Entity	E <sub>C</sub> *s#I	✓	✓	✓	✓	✓	✓	✓	✓
Free Space	E <sub>C</sub> *s1M	✓	✓	✓	ns	✓	✓	✓	✓
Flush All Pages	E <sub>C</sub> &r#F	✓	✓	✓	ns	✓	✓	✓	✓
Echo	E <sub>C</sub> *s#X	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported. ns - Indicates a command is not supported.									



**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>PICTURE FRAME (for Vector Graphics)</b>									
Picture Frame Horiz. Size	E <sub>c</sub> *c#X	✓	✓	✓	✓	✓	✓	✓	✓
Picture Frame Vert. Size	E <sub>c</sub> *c#Y	✓	✓	✓	✓	✓	✓	✓	✓
Set Picture Frame Anchor Point	E <sub>c</sub> *c0T	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Horiz. Plot Size	E <sub>c</sub> *c#K	✓	✓	✓	✓	✓	✓	✓	✓
HP-GL/2 Vert. Plot Size	E <sub>c</sub> *c#L	✓	✓	✓	✓	✓	✓	✓	✓
Enter HP-GL/2	E <sub>c</sub> %#B								
_Stand-alone plotter (-1)		ns	ns	ns	ns	ns	ns	ns	ns
_Previours HP-GL (0)		✓	✓	✓	✓	✓	✓	✓	✓
_Current PCL CAP (1)		✓	✓	✓	✓	✓	✓	✓	✓
_Current PCL coordinates and old HP-GL/2 (2)		ns	ns	ns	ns	ns	ns	ns	ns
_Current PCL coordinates and current CAP (3)		ns	ns	ns	ns	ns	ns	ns	ns
Enter PCL Mode	E <sub>c</sub> %#A	✓	✓	✓	✓	✓	✓	✓	✓
<b>PROGRAMMING HINTS</b>									
Display Functions									
On	E <sub>c</sub> Y	✓	✓	✓	✓	✓	✓	✓	✓
Off	E <sub>c</sub> Z	✓	✓	✓	✓	✓	✓	✓	✓
End-Of-Line Wrap	E <sub>c</sub> &s#C	✓	✓	✓	✓	✓	✓	✓	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported.									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

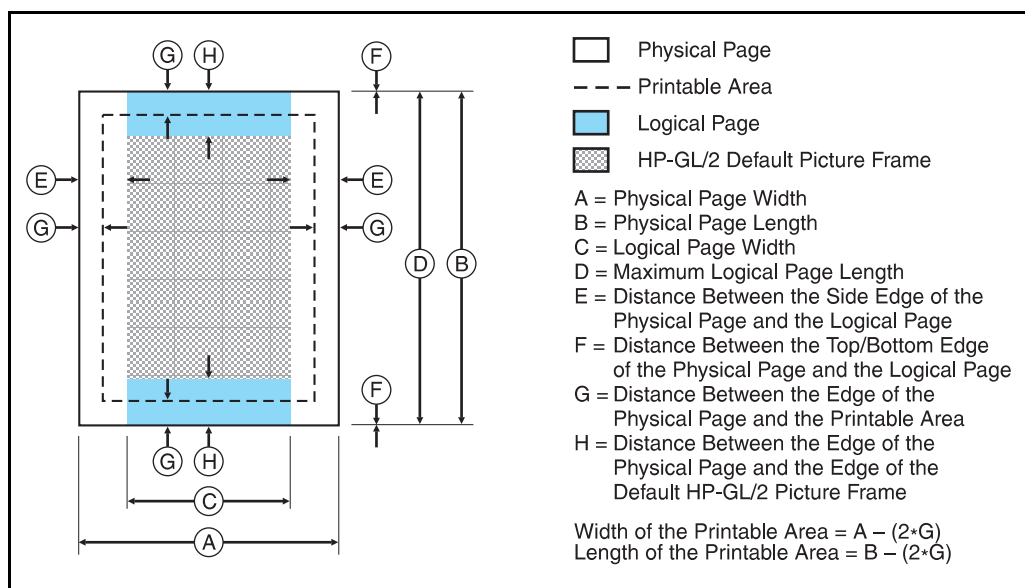
FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>PCL 5 COLOR COMMANDS</b>									
Assign Color Index	E <sub>C</sub> *v#I	ns	ns	ns	✓	ns	ns	ns	✓
Color Component 1	E <sub>C</sub> *v#A	ns	ns	ns	✓	ns	ns	ns	✓
Color Component 2	E <sub>C</sub> *v#B	ns	ns	ns	✓	ns	ns	ns	✓
Color Component 3	E <sub>C</sub> *v#C	ns	ns	ns	✓	ns	ns	ns	✓
Color Lookup Tables	E <sub>C</sub> *ℓ#W[data]	ns	ns	ns	ns	ns	ns	ns	✓
Configure Image Data	E <sub>C</sub> *v#W[data]	ns	ns	ns	✓ <sup>1</sup>	ns	ns	ns	✓
Download Dither Matrix	E <sub>C</sub> *m#W	ns	ns	ns	ns	ns	ns	ns	✓
Driver Function Config.	E <sub>C</sub> *o3W643	ns	ns	ns	✓	ns	ns	ns	ns
	E <sub>C</sub> *o3W646	ns	ns	ns	✓	ns	ns	ns	ns
	E <sub>C</sub> *o3W647	ns	ns	ns	✓	ns	ns	ns	ns
Foreground Color	E <sub>C</sub> *v#S	ns	ns	ns	✓	ns	ns	ns	✓
Gamma Correction	E <sub>C</sub> *t#I	ns	ns	ns	ns	ns	ns	ns	✓
Monochrome Print Mode	E <sub>C</sub> &b#M	ns	ns	ns	✓	ns	ns	ns	✓
Palette Control ID	E <sub>C</sub> &p#I	ns	ns	ns	✓	ns	ns	ns	✓
Palette Control	E <sub>C</sub> &p#C	ns	ns	ns	✓	ns	ns	ns	✓
Push/Pop Palette	E <sub>C</sub> *p#P	ns	ns	ns	✓	ns	ns	ns	✓
Render Algorithm	E <sub>C</sub> *t#J								
Range: 0 - 8		ns	ns	ns	0,3 only	ns	ns	ns	✓
Range: 9 - 10		ns	ns	ns	ns	ns	ns	ns	✓
Range: 11 - 14		ns	ns	ns	ns	ns	ns	ns	✓
Range: 15 - 19		ns	ns	ns	15,18 only	ns	ns	ns	✓
Select Palette	E <sub>C</sub> &p#S	ns	ns	ns	✓	ns	ns	ns	✓
Set Viewing Illuminant	E <sub>C</sub> *i#W[data]	ns	ns	ns	ns	ns	ns	ns	✓
Simple Color	E <sub>C</sub> *r#U	ns	ns	ns	✓	ns	ns	ns	✓
✓ Indicates a command is supported.    ns - Indicates a command is not supported. <sup>1</sup> The HP LaserJet 4500 Series printers do not support Luminance-Chrominance and CIE Lab, the long form of RGB/CMY, and the long form of cRGB									

**Table 1-1C. PCL 5 Feature Support Matrix (continued)**

FUNCTION	COMMAND	1100 Series	2100 Series	4000 Series	4500 Series	5000 Series	8000 Series	8100 Series	8500 Series
<b>HP-GL/2 GRAPHICS</b>									
HP-GL/2—Commands listed in Table A-2 except as shown below		✓	✓	✓	✓	✓	✓	✓	✓
Advance Full Page	PG	✓	✓	✓	ns	✓	✓	✓	ns
Bezier	BR, BZ	✓	✓	✓	✓	✓	✓	✓	✓
Begin Plot	BP	ns	ns	ns	ns	ns	ns	ns	ns
Chord Tolerance Mode	CT	ns	ns	ns	ns	ns	ns	ns	ns
(Relative) Color Range	CR	ns	ns	ns	✓	ns	ns	ns	✓
Download Character	DL	ns	ns	ns	ns	ns	ns	ns	ns
Fill Type	FT								
Odd/Even		✓	✓	✓	✓	✓	✓	✓	✓
Non-Zero Winding		✓	✓	✓	✓	✓	✓	✓	✓
Frame Advance	FR	ns	ns	ns	ns	ns	ns	ns	ns
Label origin	LO								
1-9 / 11-19		✓	✓	✓	✓	✓	✓	✓	✓
21		✓	✓	✓	✓	✓	✓	✓	✓
Media Type	MT	ns	ns	ns	ns	ns	ns	ns	ns
Merge Control	MC	✓	✓	✓	✓	✓	✓	✓	✓
Number of Pens	NP	ns	ns	ns	✓	ns	ns	ns	✓
Output Error	OE	ns	ns	ns	ns	ns	ns	ns	ns
Output Hardcopy Limits	OH	ns	ns	ns	ns	ns	ns	ns	ns
Output Identification	OI	ns	ns	ns	ns	ns	ns	ns	ns
Output P1 and P2	OP	ns	ns	ns	ns	ns	ns	ns	ns
Output Status	OS	ns	ns	ns	ns	ns	ns	ns	ns
Pen Color Assignment	PC	ns	ns	ns	✓	ns	ns	ns	✓
Pixel Placement	PP	✓	✓	✓	✓	✓	✓	✓	✓
Plot Size	PS	ns	ns	ns	ns	ns	ns	ns	ns
Quality Level	QL	ns	ns	ns	ns	ns	ns	ns	ns
Replot	RP	ns	ns	ns	ns	ns	ns	ns	ns
✓ Indicates a command is supported.    ns - Indicates a command is not supported.									

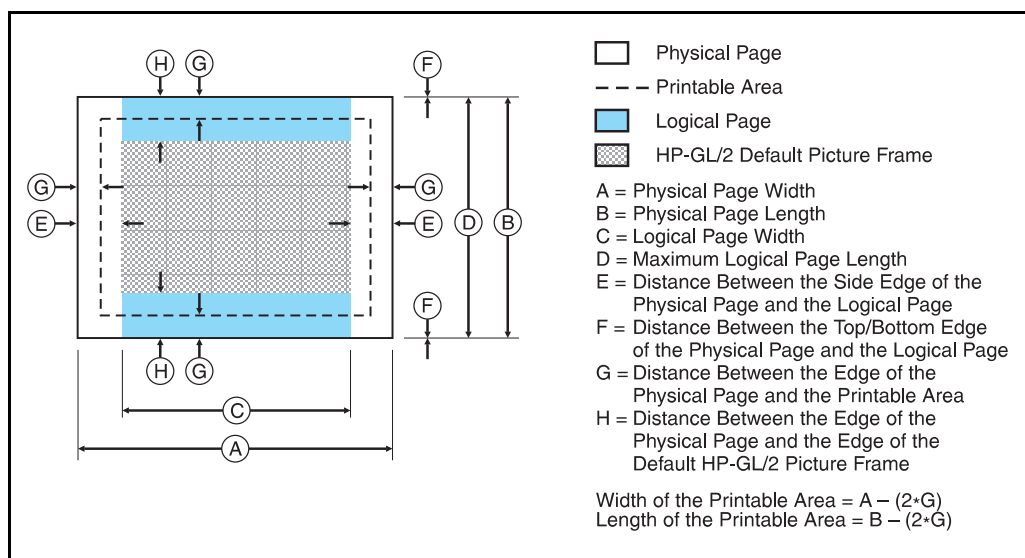
## Printable Area

The relationships between physical page, logical page, default picture frame, and printable area are illustrated in Figures 1-1 and 1-2. The tables list the variations in sizes for the different physical page sizes. For more information concerning printable area or logical/physical page differences, consult the *PCL 5 Printer Language Technical Reference Manual*.



PAPER SIZE	DIMENSIONS (in dots at 300 DPI - double for 600 DPI)							
	A	B	C	D	E	F	G	H
<b>Portrait Dimensions</b>								
Letter	2550	3300	2400	3300	75	0	50	150
Legal	2550	4200	2400	4200	75	0	50	150
Ledger	3300	5100	3150	5100	75	0	50	150
Executive	2175	3150	2025	3150	75	0	50	150
A4	2480	3507	2338	3507	71	0	50	150
A3	3507	4960	3365	4960	71	0	50	150
Com-10	1237	2850	1087	2850	75	0	50	150
Monarch	1162	2250	1012	2250	75	0	50	150
C5	1913	2704	1771	2704	71	0	50	150
B5	2078	2952	1936	2952	71	0	50	150
DL	1299	2598	1157	2598	71	0	50	150
JIS B4	3035	4299	2893	4299	71	0	50	150
JIS B5	2149	3035	2007	3035	71	0	50	150
Hagaki	1181	1748	1039	1748	71	0	50	150
Oufuku-hagaki	1748	2362	1606	2362	71	0	50	150

**Figure 1-1 Portrait Logical Page and Printable Area Boundaries**



	DIMENSIONS (in dots at 300 DPI - double for 600 DPI)							
PAPER SIZE	A	B	C	D	E	F	G	H
Portrait Dimensions								
Letter	2550	3300	2400	3300	75	0	50	150
Legal	2550	4200	2400	4200	75	0	50	150
Ledger	3300	5100	3150	5100	75	0	50	150
Executive	2175	3150	2025	3150	75	0	50	150
A4	2480	3507	2338	3507	71	0	50	150
A3	3507	4960	3365	4960	71	0	50	150
Com-10	1237	2850	1087	2850	75	0	50	150
Monarch	1162	2250	1012	2250	75	0	50	150
C5	1913	2704	1771	2704	71	0	50	150
B5	2078	2952	1936	2952	71	0	50	150
DL	1299	2598	1157	2598	71	0	50	150
JIS	B4	3035	4299	2893	4299	71	0	50
JIS	B5	2149	3035	2007	3035	71	0	50
Hagaki	1181	1748	1039	1748	71	0	50	150
Oufuku-hagaki	1748	2362	1606	2362	71	0	50	150

**Figure 1-2 Landscape Logical Page and Printable Area Boundaries**