

Export Utility: HXV - Velocity Past-Performance Data

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Revised: July 2009

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HXV - Introduction and Overview

The HXV export provides data that matches the [FPS] screen in HTR2 software. It extracts up to 10 past-performance lines with the entire realm of velocity ratings. It has a similar file output and format to the previous HX5 function. With the exception of the identifying race information though, the data fields in HXV are unique and not found in HX5 or any previous export utility in HTR2.

- System date for all pp lines, instead of text date or "days ago".
- All velocity ratings and Eenergy% exactly as shown on the FPS screen for all 10 pp lines.
- SOR (Strength of Race) rating for all pp lines.
- Final Tote Odds and Field Size for all 10 pp lines.
- Cramer (Beyer style) speed rating for all 10 pp lines.
- Race PAC and PER ratings for all running lines.

Application

- Query and perform any analysis on velocity feet-per-second ratings.
- Create your own custom past-performance output (possibly using HX5 export together with HXV).
- Create and test your own velocity rating from FR1, FR2, FR3 combinations.

Notes: The horse PAC and PER ratings are found in HX5 export while the HXV sends out the PAC and PER race ratings. HX5 contains the Cramer 'sheet' figure. This export (HXV) has the Cramer 'Beyer Style' speed rating.

Using the HXV Export Function

1. Load the HTR2 software (July 2006 or later) and click the EXPORT button from the bottom of the main screen.
2. Select 'HXV' from the option list on the left of the screen.
3. Select the other desired export options and click the 'Export Now' button.

Note: This export does not require result charts.

HXV File Naming

File names produced by the HXV follow the protocol below.

Single Track

TRK_HXV.TXT (e.g. BEL_HXV.TXT for Belmont)

ALL Option

ALL_HXV.TXT

A header is created for each new file. See File Specification for field names.

HXV File Specification

Below are the field locations, header names and data description for each. The first 10 fields are descriptive for the race that is being exported. The remaining fields are from the horse's past-performances, up to 10 running lines.

| FIELD # | Header | Description | Field Spec |
|---------|--------|---|------------|
| 01 | tTRACK | Track | Text |
| 02 | nDATE | System Date (38490 = 05/18/05) | Date/Time |
| 03 | nRACE | Race number | Byte |
| 04 | nDIST | Distance of race in furlongs | Single |
| 05 | nSURF | Surface code 1= Fast Dirt 2= Turf 3= Wet Dirt 4= poly | Byte |
| 06 | nCLASS | Class Code 1= Alw/Stakes; 2= Claiming 3= Msw; 4= Mdn Claiming | Byte |
| 07 | nEPR | EPR for the race | Byte |
| 08 | tPGM | Program Number | Text |
| 09 | tHORSE | Name of Horse | Text |
| 10 | nMLO | Morning Line Odds | Single |

The remaining data below is shown in blocks of ten; the displayed "PPx" represents the numbers 1-9 and 0 (for 10) that correspond to each of the horse's past-performance lines.

| | | | |
|-------|----------|--|---------|
| 11-20 | nPPxAGO | # of days (from today) when race was run (999 max) | Integer |
| 21-30 | tPPxTRK | Track location of race | Text |
| 31-40 | nPPxDIST | Distance of race in furlongs | Single |
| 41-50 | nPPxSURF | Text Surface codes | Text |

char 1-2 are the track condition: "ft", "sy", "gd", "fm" etc
char 3 will have an "x" if the race was taken off the grass
char 4-5 is numeric amount of the rail placement for grass races, "48" = rail was placed out 48 feet for this race
example: "gd 35": A turf course rated "good" with the rail out 35 feet.

"syx": A sloppy dirt track that was a race removed from grass.

"ftx": A dirt or Poly track race that was taken off the grass and now on fast ground (use course codes to find actual surface type)

File Specification HXV

| <u>FIELD #</u> | <u>Header</u> | <u>Description</u> | |
|--|---------------|---|---------|
| 51-60 | nPPxCLA | Class code for race | Byte |
| 61-70 | nPPxSOR | SOR Rating for the race | Byte |
| 71-80 | nPPxCSF | Horse Cramer Speed Ratings | Byte |
| 81-90 | nPPxFR1 | Horse Fr1 fps ratings | Single |
| 91-100 | nPPxFR2 | Horse Fr2 fps ratings | Single |
| 101-110 | nPPxFR3 | Horse Fr3 fps ratings | Single |
| 111-120 | nPPxAP | Horse A/P fps ratings | Single |
| 121-130 | nPPxEP | Horse E/P fps ratings | Single |
| 131-140 | nPPxSP | Horse S/P fps ratings | Single |
| 141-150 | nPPxFX | Horse F/X fps ratings | Single |
| 151-160 | nPPxLP | Horse L/P fps ratings | Single |
| 161-170 | nPPxEEN | Horse Early Entergy ratings | Single |
| 171-180 | nPPxRPAC | Race PAC ratings | Single |
| 181-190 | nPPxRPER | Race PER ratings | Single |
| 191-200 | nPPxODDS | Final Tote Odds | Single |
| 201-210 | nPPxFSZ | Field Size | Byte |
| 211-220 | nCVARx | Cramer Variant points (+) = track slow; (-) track fast | Integer |
| 221-230 | nRUNUPx | Run up distance from gate to timer -1= no race or data available | Integer |
| <p>Note: The Run Up data was added to our files on June 13, 2009, older races will not have this information. The Run up is only measured for past performance lines run from the year 2009 forward.</p> | | | |
| 231-240 | nDFIGx | DFIGS (PAC - Cramer Fig) | Single |
| 241-250 | nPURSEx | Purse x\$1000; i.e. 23= \$23000 | Integer |

Comments fields 171-210

- The PAC-PER ratings in this export are the race ratings. To obtain the horse's PAC-PER ratings, use HX5.
- Tote odds are the final betting odds for each start.
- Field Size is the actual number of horses that ran in each race after scratches.

Comments

Zero values in any of the data fields above indicate that there is no data, data missing or not reported. Typically this is due to the horse having less than 10 running lines.

Races < 4.5f or > 14.0f don't have a half-mile fraction and are ignored in HXV as they would crash the computation for the velocity and energy%.

If you are novice to using the HTR2 export utility, please read our HTR2 Access Manual:

<http://www.homebased2.com/km/dnl/HTR2%20Access%20Manual.pdf>

For a list of Terms and Abbreviations used

<http://www.homebased2.com/km/terms1.htm>