

Please see the Metrics section of this manual for a description of each metric that is measured and reported by the program.

The following is a visual of our Hitting Guide that reviews the training session window and features in greater detail. Please contact us if you do not have this Guide.

HitTrax Hitting Guide

Exit Velocity (EV)
The velocity of the ball as it comes off the bat

Distance
The distance shown on the field represents the projected distance relative to first point of contact.

The distance displayed in the results box (top of screen) represents the true projected distance without obstruction. This comes into play if the ball first strikes the wall or stands.

Points
The point value represents the quality of the hit relative to the EV, LA, Dist, and result. The higher the number the better the hit.

Pitch
The velocity of incoming pitch

Angle (Pitch)
The horizontal angle of the incoming pitch. Negative indicate sink while positive indicates a rise

Launch Angle (LA)
The vertical angle of the ball as it comes off the bat. Positive indicates an elevated hit while negative indicates a ground ball

Green/Green
EV number will turn green if hit is classified as a Hard Hit (HH)

LA number will turn green if hit is classified as a LD

Hard Hit (HH)
Hits within 10% of the players max. exit velocity over the past 6 months

Hard Hit Avg (HHA)
Players average of Hard Hits during session

Line Drives Plus HH (LPH)
Line Drive % + Hard Hit Average. LPH is the sum of a hitter's LD% and HHA.

Rank
percentile ranking worldwide in player's age group

6 mo. (Best)
displays the player's personal best over the last 6 months

Live Video Window

Manual playback of last 3 seconds

Select to playback/review the last hit recorded

Pauses capture while keeping the live video active

Select to change camera views

Adjust size of video window

Live feed from 1 of 3 cameras with auto capture of video immediately following the hit.

Instant playback/review immediately following hit

Hit Type

Ground Ball (GB)	Line Drive (LD)	Fly Ball (FB)
LA < 15° and/or Dist < 120/90 ft	LA > 15° and/or Dist > 120/90 ft	LA > 30°

* Note - Hit types for LA's between 15°-30° will be dependent on Height/Dist. ratio of 0.14
LD = 0.14 FB > 0.14

User can select 1 of 3 charts to displays

- Point of Impact (shown):** POI displays where the ball was hit with respect to home plate
- Strike Zone** - displays the exact position of the incoming pitch and displays metrics for each section of the zone
- Spray Chart** - displays the location where the ball comes to rest or is picked up by the fielder.
 - Red = Outs
 - Blue = Hits



The video feature can be activated within the hitting session with the HitTrax high-speed camera and active subscription.

Videos collected during the session will be automatically clipped and saved to the corresponding hit. Editing is not required.

- Please review our Video Capture and Analysis Module Guide for further information on the features.

Generate Hitting Reports

Once the Hitting Session is complete, the system will automatically generate a series of reports that will outline performance. These reports are interactive and can be modified to receive analysis by sections of the strike zone, hit type, pitch type/velocity, point of impact, etc..

Select the “Bar Graph” icon in the lower right corner of the training session window (see above picture) to enter into the Reports section.

HitTrax REPORTS

Review [icon] Compare [icon] CSV File [icon]

Session Review [dropdown]
All Bats [dropdown]
8/12/2019 5:50 PM

Average Velocity

0 mph	0 mph	
0	0	
0 mph	0 mph	0 mph
0	0	0
77 mph	0 mph	0 mph
1/1	0	0
0 mph	0 mph	0 mph
0	0	0
0 mph	0 mph	
0	0	

Video Player: Elena Bowman, 22601-039-8-12-2019, Strike 113, 0.933

#	Pitch	Velo	LA	Dist	Res	Type
15	61.0	76.5	30	265	HR	FB
34	60.2	75.1	26	240	HR	FB
6	58.8	74.7	29	252	HR	FB
31	0.0	74.7	23	231	HR	LD
35	60.1	74.0	31	253	HR	FB
7	59.5	73.8	29	247	HR	FB
13	59.5	73.7	33	256	HR	FB
17	60.2	73.7	-5	23	1B-7	GB
9	59.6	72.4	19	192	2B-8	LD
25	60.2	71.0	22	199	2B-8	LD
10	60.1	71.0	12	137	2B-8	LD
26	58.6	69.9	22	196	2B-7	LD
27	59.6	69.0	44	233	HR	FB
33	58.5	68.7	42	233	HR	FB
19	58.6	67.0	10	108	1B-7	LD
2	60.2	63.4	52	189	F8	FB
24	59.4	58.5	66	120	F9	FB
14	59.3	53.5	4	49	1B-8	GB

● Ground Balls 24%
● Fly Balls 48%
● Line Drives 29%

Elena Bowman Refresh Email/Print [icon] Close [icon]

There are five (5) reports that can be generated for the hitting session. Select the pull-down menu in the upper right to select one of the following reports:

- 1) Session Review – general review of the metrics captured during the session. The data can be sorted by pitch velocity or by sections of the strike zone.
- 2) Spray Chart – shows the fielded or resting location of each hit. The data can be sorted by hit type and strike zone

- 3) Launch Angle – The average and max exit velocities of the hits will be displayed in 5 degree increments of the vertical launch angle from -30 to 70 degrees. The yellow line indicated the average exit velocity of the combined hits in each 5 deg increment. The ‘red x’ indicates the max velocity hit in that 5 deg increment. This data can be sorted out by strike zone and hit type.
- 4) Session Review (pictured) – the hits measured during the hitting session will be displayed line by line on the right side of the report. You can select any one hit and the location of the pitch will be shown in the strike zone and the corresponding point will be displayed on the spray chart.

Videos are available for review by selecting the ‘camera’ icon to the right of each individual hit. Once selected, the video will appear over the spray chart and the video can be reviewed.

- Please review our Video Capture and Analysis Module Guide for further information on the features.

- 5) Point of Impact (POI) – a display of the point of impacts for each hit is shown in this report. Select the specific hit on the right and the corresponding POI is shown on the chart. Average exit velocities are shown for each 6” section of the strike zone. Select a side view of the plate (default) or above view. Filter data by exit velo, result, hit type, strike zone.

Videos are also available for review if captured during the hitting session.

All reports can be emailed to the player, coach, parent by selecting the ‘Email/Print’ button in the lower part of report (see above picture for exact location). Once selected, the report will be entered into a “Queue”. Once ready to email, select Queue and email the report.

Metrics – Hitting Session

- **Pitch** = measured speed (in mph) of the incoming pitch
- **EV** = measured exit ball velocity (in mph) of the outgoing hit
- **LA** = measured launch angle of the outgoing hit
- **Pts** = Quality Hit score for the hit calculated based on exit velocity, LA, distance, and outcome
- **Outcome** = system calculated likely outcome of hit and report results based on the player's selected skill level
- **P** = total number of pitches thrown
- **AB** = the total number of balls put in play
- **H** = the total # of hits (balls put in play where the batter would reach base safely) recorded during the session
- **EBH** = total # of extra base hits (2B, 3B, HR) hit during the session
- **HR** = total # of home runs hit during the session
- **AVG** = the hitter's calculated batting average during the session
- **GB%** = percentage of Ground Balls hit during session
- **LD%** = percentage of Line Drives hit during the session
- **FB%** = percentage of Fly Balls hit during session
- **HHA** = hard hit average. % of hits within the top 10% of the player's max exit ball velocity over last 6 months. This indicates how consistently a player is hitting.
- **Avg Vel** = player's average exit velocity during the session

Metrics – Hitting Session cont.

- **Max Vel** = player's maximum exit velo during the current session, highest over the past 6 mo. and how their highest ranks amongst HitTrax users in their age group
- **Max Dist** = the player's maximum distance during the current session, longest hit over the past 6 mo. And how their longest ranks amongst HitTrax users in their age group
- **LPH** = Line Drive % + Hard Hit Average. Similar to On Base Plus Slugging (OPS), LPH is the sum of a hitter's LD% and HHA. The metric indicates how well as hitter has the ability to hit line drives in the top 10% of the maximum exit velocity.