

# Research Task 5: Validation of SU Women's Lacrosse 2025 Statistics

## Overview

This document compares results from Python-based data analysis to answers provided by ChatGPT, both referencing the same Syracuse Women's Lacrosse 2025 dataset. Each section shows the prompt given to ChatGPT, the Python answer, the ChatGPT answer, and a concise comparison.

### A. How many games did the team play

ChatGPT Prompt:

text

How many games did the team play? Refer only to the data from the provided player, team, and schedule statistics.

- Python:  
Team played 19 games
- ChatGPT:  
The team played 19 games in total during the 2025 season
- Comparison:  
Exact match

### B. Who scored the most goals

ChatGPT Prompt:

text

Who scored the most goals? Please use only the data in the Player Statistics table.

- Python:  
Emma Muchnick 34 goals

- ChatGPT:  
The player who scored the most goals was Emma Muchnick 34 goals
- Comparison:  
Exact match

## C. Who had the most assists

ChatGPT Prompt:

text

Who had the most assists? Please use only the data in the Player Statistics table.

- Python:  
Emma Ward 46 assists
- ChatGPT:  
The player with the most assists was Emma Ward 46 assists
- Comparison:  
Exact match

## D. Who contributed the most points

ChatGPT Prompt:

text

Who contributed the most points? Use only the Player Statistics table and report the player with the highest PTS column.

- Python:  
Emma Ward 76 points
- ChatGPT:  
The player with the most points was Emma Ward 76 points
- Comparison:  
Exact match

## E. What are the team totals for goals, assists, points

ChatGPT Prompt:

text

What are the team totals for goals, assists, and points for the season? Please use the 'Totals' row in the Player Statistics table.

- Python:  
Goals 234, Assists 112, Points 346
- ChatGPT:  
Goals 235, Assists 112, Points 347
- Comparison:  
Minor discrepancy likely due to inclusion or exclusion of summary or team rows

## **F. Most efficient scorer (goals per shot, minimum ten shots)**

ChatGPT Prompt:

text

Who is the most efficient scorer? Calculate goals per shot (G/SH), only including players with at least 10 shots.

- Python:  
Sam DeVito 0.67 goals per shot
- ChatGPT:  
Sam DeVito with a 66.7 percent goal to shot ratio 8 goals from 12 shots
- Comparison:  
Exact match

## **G. Largest impact on draws per game**

ChatGPT Prompt:

text

Which player had the largest impact on draw controls per game? Calculate draw controls (DC) per game played (GP), and list the top result.

- Python:  
Joely Caramelli 2.05 draws per game
- ChatGPT:  
Meghan Rode 4.41 draws per game
- Comparison:  
Discrepancy, possibly from data selection or filtering differences

## H. Largest impact on ground balls per game

ChatGPT Prompt:

text

Which player had the most ground balls per game? Calculate ground balls (GB) per game played (GP) and provide the top result.

- Python:  
Emma Muchnick 1.42 ground balls per game
- ChatGPT:  
Coco Vandiver and Kaci Benoit 1.79 ground balls per game
- Comparison:  
Discrepancy; needs review of data selection and filtering

## I. Turnover rate per game for starters

ChatGPT Prompt:

text

List the turnover rate per game for all 'starters' (players with at least 15 games played). Report the highest rates.

- Python:  
Emma Ward 2.16 turnovers per game  
Emma Muchnick 1.63  
Alexa Vogelmann 1.42
- ChatGPT:  
Emma Ward 2.16 turnovers per game

Emma Muchnick 1.63

Alexa Vogelmann 1.42

- Comparison:  
Close agreement

## **J. Most clutch player (most game-winning goals)**

ChatGPT Prompt:

text

Who was the most clutch player? Report the player with the most game-winning goals (GW) from the Player Statistics.

- Python:  
Caroline Trinkaus 4 game winning goals
- ChatGPT:  
Caroline Trinkaus 4 game winning goals
- Comparison:  
Exact match

## **K. Best defensive impact (caused turnovers per game minus turnovers)**

ChatGPT Prompt:

text

Who had the best defensive impact? For each player, subtract turnovers (TO) from caused turnovers (CT), divide by games played (GP), and list the top result.

- Python:  
Joely Caramelli 0.16 per game
- ChatGPT:  
Coco Vandiver net defensive score 1.95
- Comparison:  
Different player identified; clarify metric used

