INTRODUCTION

• Professional baseball players with greater visual capacity exhibit superior batting performance, linking visual skills to a player's performance [1].

EXAS A&M

CORPLIS

- Previous research has shown vision training using analog and digital methods to improve visual skills [2,3]
 Confidence and perceived sport competence is an important part of a proposed positive feedback loop between physical activity and motor skills [4,5]

PURPOSE

To investigate the attitudes, perceptions, and visual skills of high school baseball players

METHODS

33 High School Baseball Players Ages ranged 15 - 18

VEPT = Vizual Edge Performance Trainer

VEPT Initial Assessment

- Eve Alignment
- Depth Perception
- Visual Recognition
- Visual Tracking
- Convergence
- Divergence

Six tests are combined into VEPT Overall Visual Skills score

VEPT Training Sessions

1-2 Sessions a week

Averaging 17.16 ± 2.73 weeks

Averaging 18.07 ± 2.90 minutes

*Numbers are displaying Mean±SD

VEPT Post Assessment

25 Likert-Scale Question Survey

Statistical Analysis

- Pre and Post VEPT scores compared using a dependent samples t-test
- Agree and strongly agree survey responses converted into percentages

RESULTS

- Post training scores were higher than baseline scores (t(32) =2.04, p < 0.001, d = 1.22), with 7.6 % difference.
- Over half the sample reported perceived improvements in their overall visual skills and their ability to focus on the ball.

PERCEPTIONS, ATTITUDES, AND SKILL IMPROVEMENTS OF HIGH SCHOOL **BASEBALL PLAYERS PARTICIPATING IN VISUAL SKILLS TRAINING**







Figure 2. Example of a still from the depth perception portion of Vizual Edge Performance Trainer assessment and training.

- after visual training.
- physical as well as perceived performance.
- attitudes and perceptions of abilities.



• Saw a significant improvement and perceived improvement in visual skills

• Future research should determine the effect of training visual skills on

• Can be used by coaches, trainers, and players to improve visual skills, hopefully resulting in improvements on the field or at least improved