



4-H & Youth Development

By: Marco Ponce, CEA 4H & Youth Development

Educational Lessons on Synthetic Drug & Alcohol Prevention



- Synthetic Drug Use & Prevention
- Dangers of Drug & Alcohol Use
- The effects of drug use on the body

Kids, Kows & More!



1,500
4th graders
in attendance from
Cameron & Hidalgo

Students learned about production agriculture in:

- Beef Cattle
- Dairy Cattle
- Sheep
- Goats
- Cotton
- Citrus



San Benito High School

Pre-Program Survey



50%
of questions
answered wrong

Post-Program Survey



51% answered
all questions
correctly

34 Students



PRAIRIE VIEW
A&M UNIVERSITY
COLLEGE OF AGRICULTURE
AND HUMAN SCIENCES

CEP 4-H & Youth Development

By: Guadalupe Castro, CEP 4H & Youth Development

Cooperative Extension Program

Heroe's 4-Health

The Prairie View (PVAMU) 4-H and FCS Cooperation Extension Program implemented the Heroes 4-Health in Cameron County targeting undeserved youth and their families.

Curriculum:
CHOSE HEALTH:
FOOD, FUN, & FITNESS



CHOSE HEALTH:
YOGA 4 KIDS



3
YOUTH camps
Harlingen
3
summer camps
Brownsville

Travel Opportunities



Ottawa, Canada



4-H National Global Summit

State Healthy Living Summit

Washington, D.C.



Surveyed on increased
knowledge learned in Healthy
living, adopting behavioral
change, & youth exercising
leadership

12
Ambassadors

340
Heroes
for Health
Participants



- 96.1% learned importance of a healthier diet
- 95% learned importance of drinking more water
- 100% learned importance of healthier food choices
- 100% learned leadership skills

various
careers in:



Engineering
Programming
Coding

BY USING SKILLS IN:

- Math
- Technology
- Science



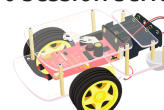
4-H Stem

4-H Science is a means to inspire individual discovery and scientific inquiry by 4-H youth. It combines a non-formal education process, hands-on, and inquiry-based learning in a youth development context to increase literacy and engage youth in improving their knowledge, skills and abilities in science, technology, engineering and mathematics.

In response to improving human capacity and workforce ability in the STEM field CEP 4-H Youth and Development program in Cameron County implemented the 4-H Robotics program.



6 session series



EV3 LEGO ROBOTICS KIT

- 85% reported increase knowledge of how a robot works
- 80% reported an increased knowledge of how to work as a team

Family & Community Health

By: Lilian Mezquida, County Extension Agent Family & Community Health

Better Living for Texans  **BETTER LIVING FOR TEXANS**
TEXAS A&M AGRILIFE EXTENSION



362

Cameron County Adults

Completed

A FRESH START

to a
Healthier You!



342

Participants

Completed a 30 day survey



Parenting Connections



Multiple Parent Education Workshop Series using

Parenting Connections

curriculum

248

single sessions
Parenting Evaluations

 **completed**

Total of

86

Parents and/or other relatives



completed

4-week program

When Sean Speaks

In partnership with Specialists,



&



San Benito CISD
San Benito Consolidated Independent School District

present

"To fundamentally improve the lives of people impacted by traumatic brain injuries through public awareness, education and research."

via - whenseanspeaks.com

'When Sean Speaks'



4,302
students
reached

Sewing Class



17

individuals

enrolled & successfully
completed a



**4 week
program**

**2 Master Clothing
Volunteers**

taught the classes

- Parts of Sewing Machine & functions
- Working with different fabrics
- Basic Clothing Construction
- Sewing kitchen pot holders and blankets



CEP Family & Community Health

By: Gloria Carter, CEP Family & Community Health

6

week nutrition program

**"Choose Health:
Food, Fun & Fitness"**

40

youth graduated

Topics Included:

How to read a nutrition label

How to make healthier food choices

Benefits of drinking less sugary drinks

2017

**"Strengthening
Families Curriculum"**



240

parent and student
participants



**learned tips on how to communicate better with
one another in order to strengthen the family**

Agriculture

By: Dr. Enrique Perez, CEA - Agriculture

Forage Production for Agriculture Producers



Interest has increased on agriculture irrigated pastureland in Cameron County

1500 more acres

21,000
irrigated acreage

Agriculture Production Committee hosted a Forage Management program series.



Pre-Post Test Indicated

85%

considered making operational changes in

- Weed Management & Fertility
- Pest Control
- Soil Sampling

Rio Grande 706 Beef: Cameron, Hidalgo, Starr, and Willacy



Beef Cattle Production in the Rio Grande Valley accounts for

\$70 million

annually in cash receipts

The beef cattle industry in the region includes:

- COW/CALF
- STOCKER CATTLE
- FEEDER OPERATIONS

52 Ranchers reported owning 5,864 head of cattle with 3.36 fold increase in knowledge, and in 7 different best management practice which equates to \$131,940 economic impacts in four county participation in the Rio Grande 706 Beef Class from October to December.

Agriculture and Production/Environmental Stewardship

352 soil samples



Soil Campaign translates a
\$55,525
economic impact reduction of fertilizer.

October - November

Representing

2,261 acres

in agriculture production fields in Cameron County

Submitted to:

Texas A&M AgriLife Extension Service
Soil, Water and Forage Testing Laboratory



\$25

average cost savings per acre

Pesticide Safety

621
individuals
33 group sessions
1900 hours of instruction



Economic Value

\$49,000.00

in Continuing Education Units



63 persons attended

4 Pesticide Safety Training's
In **2017**

5 hour course

required to obtain a pesticide license by the Texas Department of Agriculture

Coastal & Marine Resources

By: Tony Reisinger, CEA Coastal & Marine

Turtle Excluder Device (TED) Outreach

**3 Year Project
concluded in
December 2017**

**educated
Gulf of Mexico
shrimp fishermen
on TED compliance**

**in an effort to
increase sea turtle
survival in the
Gulf.**

We feel this project has significantly contributed to the increase in survival for all five species of threatened or endangered sea turtles inhabiting the Gulf of Mexico.

During this quarter we boarded **39**

**Gulf of Mexico
Shrimp Vessels**



**inspected
120
TEDS**



**The Conclusion of a successful
flat bar TED Demonstration led to:**

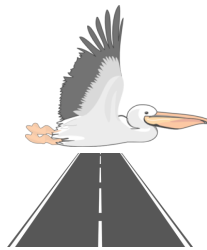
**6.8% in Shrimp Catch
& 10% in bycatch**



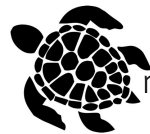
Texas Coastal Naturalists

The Highway 48 crossing at Bahia Grande is perpendicular to the north wind. The combination of high north winds and barriers along the highway at the site result in a vortex of air over the road causing northbound pelicans to lose lift and land on the road during the high winds.

Cameron County Emergency Management, Texas Parks & Wildlife, and TXDOT are also responding to these events.



**50 downed pelicans
rescued**



**rescued
123
cold stunned sea turtles
in Lower Laguna Madre**

**The Red Tide Ranger
Division**

trained in the HABscope



Texas Master Naturalists



**213
Naturalists** **>** **6,615 hrs.
Volunteer Work**

Providing education, outreach, and service dedicated toward the beneficial management of natural areas and resources in Cameron County and the Rio Grande Valley.

The total value of their volunteer time this quarter is \$155,849 for our community.

A large portion of this time is dedicated to saving sea turtles.

Cameron County Shrimp Production

185 shrimp vessels **value over \$68 million**

Preliminary figures indicate our shrimp fleet's production may exceed 15 million pounds of wild Gulf shrimp

Production was delayed this year during the opening of the shrimp season due to a lack of H2B Visa workers. This situation combined with the impacts of Hurricane Harvey may have contributed to the lower production compared to last year.

Cameron County shrimp aquaculture production in 2017 was concentrated along the Arroyo Colorado.

229 thousands lbs.

value at \$561 thousand

A total of 229 thousand pounds was produced at a value of \$561 thousand farm gate in 206 acres of ponds. Survival was down due to a combination of cold water temperatures and the first case of Early Mortality Syndrome (EMS) in the USA. We were expecting this syndrome to appear since it recently afflicted shrimp farms in the Tampico area.

Urban Horticulture

By: Jennifer Herrera , CEA - Horticulture



Cameron County Master Gardeners

Provides education thru:

- Variety of teaching methods
- Weekly Newspaper articles
- Hands on Workshops
- Training
- Clinics
- Seminars
- Tours

2017 Master Gardener Training



20 graduates



2,911.55 Volunteer Service hours

\$61,515.16



Growing & Nourishing Healthy Communities 'GNHC'

11 Community Gardens Established

Established

producing

3,858 pounds

in 2017

kale, cucumbers, cabbage, watermelons, tomatoes, squash, and peppers were grown most often



Results suggest that the GNHC program is playing an important role in improving the availability and accessibility of fresh produce (particularly vegetables) in the home of the GNHC participants. Participants also reported a significant increase in self-perceived knowledge/skills related to gardening.

Completed GNHC Program

91%

Rated Gardening knowledge/skills as "good" or "excellent"



Expanded Food & Nutrition Education Program

By: Melissa De Leon, EFNEP Agent



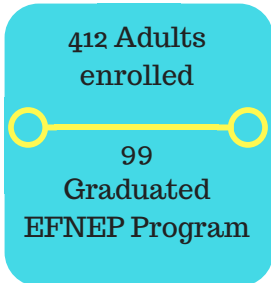
September

December

4 Nutrition
Education Assistants

2 Nutrition
Education Associates

8 week program



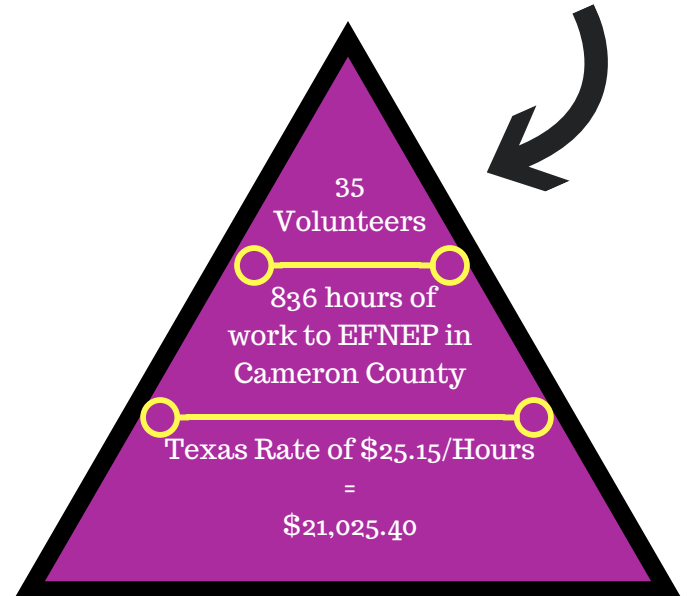
6 week program



Supporting Texas Families
with greatest need
Since 1969

Volunteers make a

difference



The Expanded Food & Nutrition Education Program (EFNEP) helps young families and youth with limited resources-those most at risk to suffer from hunger, are disproportionately affected by poor health. EFNEP nutrition educators deliver an interactive lesson series on topics such as stretching food dollars, improving eating habits, increasing physical activity and handling food safely in home.



Sullivan Elementary Parental Involvement
NEA: Sarah Ripke



Martin Elementary
NEA: Laura Dorado

Cameron County Healthy South Texas

By: Elyssa Davis - Extension Program Specialist

Maintain No Gain

November
2017



January
2018

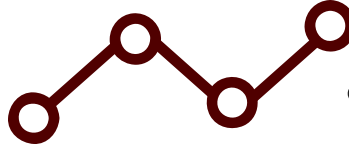


Goals

Maintain participant
weight within

2 lbs

Increase



amount of
physical activity
fruit
& vegetable intake

Total of

8



Throughout

Cameron County

at workplaces & community sites

80

participants
completed

7 week
challenge



"Excellent program. I was able to maintain my weight. My health has been slightly improving and sure it will continue improving with healthier eating habits and have been able to start exercising as well."



2 winners with their
new dinner Tonight cookbooks

Participants remarked on how much they appreciated the weekly check-ins and accountability using the Fruit and Vegetable Tracker, as well as the recipes and information shared.



Cameron County

Healthy South Texas Youth Ambassadors



Youth Ambassadors (R-L)
Miranda, Osman, Karina, and
Allison



H-E-B
Wellness Event
in Harlingen

Brownsville Vive Tu
Vida event
with Youth
Ambassador Allison



Valley Aids Clinic 5K
Awareness Run & Health
Fair with Youth
Ambassadors (R-L)
Sydney, Siyan, Jessica,
Kayla, & Michelle

The members of Texas A&M AgriLife will provide equal opportunities in programs and activities, education, and employment to all persons regardless of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation or gender identity and will strive to achieve full and equal employment opportunity throughout Texas A&M AgriLife.
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