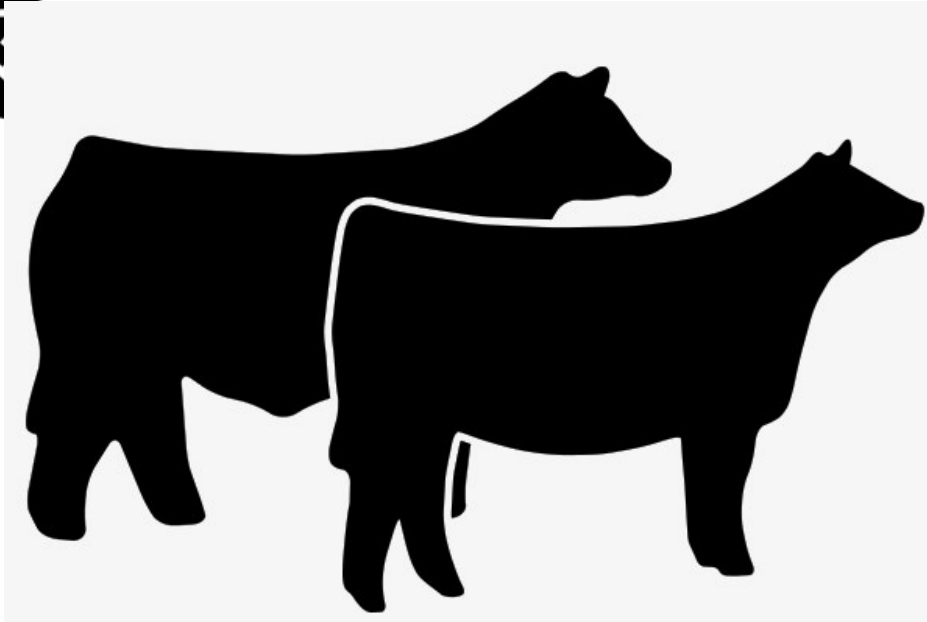


# Virginia 4-H Beef Project



## Junior Record Book

Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_ Age: \_\_\_\_\_

Physical Address: \_\_\_\_\_

Mailing Address (if different): \_\_\_\_\_

What county/city 4-H Program are you enrolled in with this project \_\_\_\_\_

4-H Club \_\_\_\_\_ Years enrolled in 4-H (including this year) \_\_\_\_\_

Is the place where you keep your project animal registered with the National Animal Identification System (NAIS)  Yes  No

**Date Project Started** \_\_\_\_\_ **Date Project Completed** \_\_\_\_\_

**Member Statement:**

I hereby certify that I have personally kept records on this project and have personally completed this record book.

4-H Member's Signature \_\_\_\_\_ Date: \_\_\_\_\_

**Record Approval:** The 4-H member has completed this record book to a satisfactory level.

Parent/Guardian Signature: \_\_\_\_\_

4-H Leader's Signature: \_\_\_\_\_

## **Instructions for Using this Record Book**

This record is designed to be the place for you to keep records on your animal projects. Read through the book carefully and complete all sections requested (for example, project planning, feed and health care purchases, supplies and tools, results from shows, and a financial summary). Do not leave any sections blank unless they do not relate to your project animal. It is important that you do your own work, but ask your 4-H leader, Extension Agent, parents, or other 4-H volunteers for help when you do not understand something.

This project record book is for record-keeping only. Information about how to raise these animals can be found in various 4-H Project Guides. Copies of project guides may be obtained from your local Virginia Cooperative Extension office.

1. Read through this book and familiarize yourself with the kinds of records you will need and where information should be recorded. Discuss the book with your parent and/or 4-H leader.
2. Complete essential information when you first start your project, such as the cover page and the project planning page. Share your goals with your 4-H leader.
3. Keep your records up to date. Record information as it occurs. Consider setting aside specific times during the project when you will work on your record book.
4. Write neatly and legibly. Use only one color ink.
5. Include at least one photograph of you with your project animal, but do not include more than two pages of photos. Additional clippings should be displayed in a scrapbook, not this record book.
6. Maintain your book in a 3-ring notebook/binder or folder.
7. Write a project story that captures what happened during your project. Discuss your goals, your activities, your challenges, and your accomplishments. Project stories must be at least five sentences; more experienced 4-H members' stories should be more in depth.

Revised 2020 by : Tina Hernandez, 4-H Volunteer. Revised 2007 by: Kelly Mallory, Extension Agent, 4-H Youth; Kaci Coppedge, Extension Agent, 4-H Youth; Cyndi Estienne, Extension Agent, 4-H Youth; Mary Elizabeth Williams, Extension Agent, 4-H Youth; Jocelyn Dailey, Extension Agent, 4-H Youth; Leslie Prillaman, Extension Agent, 4-H Youth; Bertha Durbin, 4-H Volunteer; Sandra

Turner, 4-H Volunteer; Mark Walberg, Extension Animal Science Specialist, Virginia Tech; Celeste Crisman, Extension Equine Specialist, Virginia Tech; David Winston, Extension Dairy Specialist, Virginia Tech.

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## Project Planning

**This page should be completed at the start of your project and share it with your 4-H leader.**

**1. Set at least three goals for yourself this year.**

- What do you want to learn?

- What do you hope to accomplish?

- What new activities do you want to try?

**Please tell us about your project animal (check all that apply)**

- I purchased my project animal
- My project animal is bred & owned (from a cow on my family farm)
- I lease my project animal
- I board my project animal at another farm

## **Project Planning**

**1. What factors will you consider when selecting your beef project animal(s) (breed, age, size, etc..)??**

**2. Where will you get your project animal? Reasons for selecting that breeder or farm.**

**3. How will you pay for your project animal?**

**After completion, show this page to your 4-H leader for approval.**

**Leaders Signature: \_\_\_\_\_ Date: \_\_\_\_\_**

## Breeding Animal Project Record

| Animal ID<br>(Name or #) | Registration<br># and/or<br>Tattoo | Description<br>(breed, color, marking,<br>etc.) | Birth Date<br>of Animal | Ownership Information   | Animal<br>Value or<br>Purchase<br>Price |
|--------------------------|------------------------------------|---|-------------------------|---|---|
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |
|                          |                                    |   |                         | <input type="checkbox"/> Raised on the farm<br><input type="checkbox"/> Purchased _____ (Date Purchased)<br><input type="checkbox"/> Leased _____ (Date Leased) |   |

## Market Animal Record

| Animal<br>ID | Description (breed,<br>color, etc.) | Sex | Date of<br>Birth | Purchase<br>Date and<br>Price | Starting<br>Weight | Animal Val-<br>ue or Pur-<br>chase Price | Value at<br>End of<br>Project | Final<br>Weight | Total Selling<br>Price |
|--------------|-------------------------------------|-----|------------------|-------------------------------|--------------------|--|-------------------------------|-----------------|------------------------|
|              |                                     |     |                  |                               |                    |  |                               |                 |                        |
|              |                                     |     |                  |                               |                    |  |                               |                 |                        |
|              |                                     |     |                  |                               |                    |  |                               |                 |                        |
|              |                                     |     |                  |                               |                    |  |                               |                 |                        |
|              |                                     |     |                  |                               |                    |  |                               |                 |                        |

\*\* Call your local Livestock Market or visit the VDACS Market News Website

<http://www.vdacs.virginia.gov/livestock/index.shtml> to find market value of your steer. \*\*

# Heifer Identification Page

(Complete this page for ONE of your heifer projects)

Animal's Name: \_\_\_\_\_

Registration/Tattoo/Tag: \_\_\_\_\_

Breed: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

Name of Breeder: \_\_\_\_\_

City, State: \_\_\_\_\_

## Pedigree

|             |        |                    |        |
|-------------|--------|--------------------|--------|
| _____       |        | Paternal Grandsire | Number |
| Sire's Name | Number | Paternal Granddam  | Number |
| _____       |        | Maternal Grandsire | Number |
| Dam's Name  | Number | Maternal Granddam  | Number |

## Identification

Attach a picture of your heifer below!

# Animal Care and Management

Your project requires regular care and management. List the things necessary to take care of your project animal(s).

Include the following:

- Feeding and watering practices
- Grooming (clipping, trimming, foot care, etc.....)
- Health practices and medicines
- General Management (cleaning living area and feed pans, halter breaking, training, etc...)

## Daily– Things done every day

*Example: Fed animal, gave fresh water, spent time with animal*

## Weekly– Things done once a week

*Example: Cleaned feed and water containers, gave new bedding*

## Monthly– Things done once a month

*Example: Groomed my animal*

## Yearly– Things done once a year

*Example: Trimmed hooves*

## Equipment and Supply Inventory

At the beginning of the 4-H year take an inventory of what equipment and supplies are on hand. Add new equipment or supplies you purchase to the list. We realize that often time equipment is shared between 4-H members. Please estimate a cost value for any shared equipment.

( Ex. 1 set of clippers shared between 3 members  $\$250/3 = 83.00/\text{each}$ )

| Amount and Kind                | Already Owned or Purchased | Purchase Price      |
|--------------------------------|----------------------------|---------------------|
| <i>Example: 3 Rope Halters</i> | <i>Already Owned</i>       |                     |
| <i>1 Feed Pan</i>              | <i>Purchased</i>           | <i>\$10</i>         |
|                                |                            |                     |
|                                |                            |                     |
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|                                |                            |                     |
|                                |                            |                     |
|                                |                            | <b>TOTAL:</b> _____ |



## Feed Records and Expenses

Keeping good feed records is important. Good records show your expenses for feed and what kind of feed you use for your project. A good practice is to enter your feed expenses when you buy feed. A good way to keep track of feed use is to put a calendar in the barn and write down the amount and the kind of feed used each day. At the end of the month, total each kind of feed used and its cost and record the information below. Home-raised feeds should be valued at market price - what it can be sold for.

| Type and Cost of Feed Used |                  |  |               |
|----------------------------|------------------|--|---------------|
| Date of Purchase           | Amount Purchased | Type of Feed<br>(grain mix, hay, pasture, silage mineral, supplements) | Cost or Value |
|                            |                  |  |               |
|                            |                  |  |               |
|                            |                  |  |               |
|                            |                  |  |               |
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|                            |                  |  |               |

**Total Pounds:** \_\_\_\_\_

**Total Cost:** \_\_\_\_\_

# How to Calculate Monthly Cost of Feeds

( complete this page for one animal)

## Grain

Cost of a bag of grain: \$ \_\_\_\_\_ ÷ \_\_\_\_\_ lbs in the bag = \$ \_\_\_\_\_ per lb

Amount fed: \_\_\_\_\_ lbs per day X \_\_\_\_\_ days (in month) = \_\_\_\_\_ lbs

Monthly cost of grain: \$ \_\_\_\_\_ X \_\_\_\_\_ lbs =

(Cost per lb grain) (Total amount fed) (Monthly Cost of Grain)

## Supplements (additives for increasing grain, etc..)

Cost of package: \$ \_\_\_\_\_ ÷ \_\_\_\_\_ oz or lb. in container = \$ \_\_\_\_\_ per oz or lb.

Amount fed: \_\_\_\_\_ oz or lb. per day X \_\_\_\_\_ days (in month) = \_\_\_\_\_ oz or lb.

Monthly cost of supplements: \$ \_\_\_\_\_ X \_\_\_\_\_ oz or lb. =

(Cost per oz or lb. ) (Total amount fed) (Monthly cost of Supplement)

## Hay

Cost of a bale of hay: \$ \_\_\_\_\_ ÷ \_\_\_\_\_ lbs per bale = \$ \_\_\_\_\_ per lb

Amount fed: \_\_\_\_\_ lbs per day X \_\_\_\_\_ days (in month) = \_\_\_\_\_ lbs

Monthly cost of hay: \$ \_\_\_\_\_ X \_\_\_\_\_ lbs =

(Cost per lb of hay) (Total amount fed) (Monthly Cost of Hay)

## Feed Tag Information

**Please attach a tag or label from one feed being used for your market beef project.**

**If a home-made mix is used please describe the mix on the back of this page.**

1. What production level or type of animal is this feed designed for?

*(Ex. market animal, lactating animal, growing animal, maintenance, etc....)*

2. What is the Crude Protein level of this feed?

3. What is the main ingredient in this feed?

*(Hint: if the answer is not clear, it's probably the first ingredient listed.)*

4. Is this a medicated feed?

## Health Care Expenses

Record any expenses incurred for health care of the project animal (s). Include regular preventive actions as well as treatments for disease.

- Dewormers
- Vitamin Injections
- Vaccines
- Antibiotics (over the counter and prescription)
- General Health Care/Treatment Medications (Foot rot medications, mange, lice, etc...)
- Health Paper from the Veterinarian
- Hoof Care

| Date                     | Description                          | Cost \$        |
|--------------------------|--------------------------------------|----------------|
| <i>Example: July 1st</i> | <i>Health Papers for County Fair</i> | <i>\$25.00</i> |
|                          |                                      |                |
|                          |                                      |                |
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|                          |                                      |                |
|                          |                                      |                |

**Total:** \_\_\_\_\_

## Miscellaneous Expenses or Fees

List any expenses that do not fit into one of the previous categories. Examples: Entry fees, transportation, breed association dues, registration papers, etc.

| Date                     | Description                  | Cost        |
|--------------------------|------------------------------|-------------|
| <i>Example: July 1st</i> | <i>County Fair Entry Fee</i> | <i>\$40</i> |
|                          |                              |             |
|                          |                              |             |
|                          |                              |             |
|                          |                              |             |
|                          |                              |             |
|                          |                              |             |

Total Miscellaneous Expenses: \_\_\_\_\_

## Miscellaneous Income

*Any income from the sale of products from your project animal. (This is unlikely for market beef)*

| Date | Description | Income |
|------|-------------|--------|
|      |             |        |
|      |             |        |
|      |             |        |
|      |             |        |
|      |             |        |
|      |             |        |
|      |             |        |

Total Miscellaneous Income \_\_\_\_\_

## Show Ring Record

Record the date and name of any shows attended, placing out of the number of entries in the class, and any premium money earned.

| Date | Animal | Show | Class | Placing            | Premiums Won |
|------|--------|------|-------|--------------------|--------------|
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |
|      |        |      |       | _____ out of _____ |              |

## Breeding and Calving Summary

| Animal ID | Date Bred  | Date Calved | Sex of Calf | End Product   |
|-----------|--|-------------|-------------|---|
|           | 1st Service: _____<br>2nd Service: _____<br>3rd Service: _____ |             |             | <input type="checkbox"/> Added to Herd<br><input type="checkbox"/> Sold |
|           | 1st Service: _____<br>2nd Service: _____<br>3rd Service: _____ |             |             | <input type="checkbox"/> Added to Herd<br><input type="checkbox"/> Sold |
|           | 1st Service: _____<br>2nd Service: _____<br>3rd Service: _____ |             |             | <input type="checkbox"/> Added to Herd<br><input type="checkbox"/> Sold |
|           | 1st Service: _____<br>2nd Service: _____<br>3rd Service: _____ |             |             | <input type="checkbox"/> Added to Herd<br><input type="checkbox"/> Sold |

## Breeding Heifer Production Record

### Rate of Gain

It is important to monitor the rate at which your heifer is growing to make sure she achieves her full production potential. It is a good idea to measure rate of gain several times a year.

Pick one month to measure your heifers' rate of gain.

| Heifer Name | Start Date          | End Date          | Pounds gained                 | Rate of Gain                      |
|-------------|---------------------|-------------------|-------------------------------|-----------------------------------|
|             | _____               | _____             | <b>Weight-starting weight</b> | <b>Lbs gained ÷ days in month</b> |
|             | <b>Start Weight</b> | <b>End Weight</b> | _____ - _____ = _____         | _____                             |
|             | _____               | _____             |                               |                                   |

## Market Beef Production Records

| A         | B                | C                           | D                  | E                                   | Feed efficiency Conversion (E ÷ C) |
|-----------|------------------|-----------------------------|--------------------|-------------------------------------|------------------------------------|
| Animal ID | Ending Weight    | Total Pounds Gained (A-B=C) | Total Days of Feed | Total pounds of feed the animal ate |                                    |
|           | Beginning Weight | Average Daily Gain (C÷D)    |                    |                                     |                                    |
|           |                  |                             |                    |                                     |                                    |

## Carcass Data

\*\* Please complete this section if your animal's carcass was evaluated. Fill in areas where you received data\*\*

| Animal ID | Carcass Weight | Quality Grade | Backfat (Inches) | Rib-eye Area (REA) | Yield Grade | Percent Retail Product | Carcass Value |
|-----------|----------------|---------------|------------------|--------------------|-------------|------------------------|---------------|
|           |                |               |                  |                    |             |                        |               |
|           |                |               |                  |                    |             |                        |               |
|           |                |               |                  |                    |             |                        |               |

**Average Daily Gain**—This is the average amount of weight your market beef animal will put on each day. It is calculated by taking the current weight—beginning weight and divide by the number of days the animal has been on feed.

**Feed Efficiency**—The measure of how well an animal converts the nutrients in the feed they eat into muscle & fat.



## Project Financial Summary (one chart for all)

Every project has a value, even those which are leased or borrowed. Please work with the owner or breeder to determine the value of the project.

| <b>Income</b>   |    |
|---|----|
| Premiums won, animals sold, milk sold, etc.   | \$ |
| <b>Total Income</b>   | \$ |
| <b>Expenses</b>   |    |
| Many youth select projects as a hobby or for fun but all projects will incur expenses. Please use this section to list all expenses related to participating with this project animal. Please use this section to list all. |    |
| 1. Animals Purchased or Leasing (page 5, add heifer and market together)  | \$ |
| 2. Equipment Expenses (page 8).   | \$ |
| 3. Feed Expenses (page 9).  | \$ |
| 4. Health Care Expenses (page 12).  | \$ |
| 5. Miscellaneous Expenses (13).   | \$ |
| <b>Total Expenses</b>   | \$ |
| <b>Financial Summary (Total Income—Total Expenses)</b>  | \$ |

### Questions

1. Was the cost of keeping your project what you expected?
  
2. What will you do differently next year ?

## 4-H Activities

Number of club meetings held: \_\_\_\_\_ Number you attended \_\_\_\_\_

What 4-H committees did you serve on?

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Did you hold an officer position in your 4-H Club?  Yes  No

If Yes, which one ?

President  Vice President  Secretary  Treasurer

Reporter  Chaplain  Other \_\_\_\_\_

What other 4-H leadership roles did you hold this year? (camp counselor, teen leader, etc...)

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What other 4-H clubs did you belong to and/or what other projects did you complete?

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### 4-H Activities

(community service, workshops, camps, Share-the-Fun, county contests, judging teams, etc....)

| Activity | Date | Location | Placing or Comments |
|----------|------|----------|---------------------|
|          |      |          |                     |
|          |      |          |                     |
|          |      |          |                     |
|          |      |          |                     |
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|          |      |          |                     |
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|          |      |          |                     |
|          |      |          |                     |

## Activities other than 4-H

What other clubs or groups did you belong to this year? (school, church, community, etc...)

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**List any activities you participated in for scouts, sports groups, church, community service, etc. that were not affiliated with 4-H.**

| Activity | Date | Comments |
|----------|------|----------|
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |
|          |      |          |

What leadership roles did you fulfill outside of 4-H? (school, church, community, etc...)

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## 4-H Story

The slogan of 4-H is “learn by doing”. Each year we learn something new by participating in a 4-H project. Please write a story that explains:

- *What you have learned*
- *New skills you have gained over this past year in 4-H*
- *What goals you accomplished. If you accomplished your goals, how did you do so?*

Other Examples that you may consider writing about include: Something that happened that was funny, sad or exciting, Challenges you faced and how you overcame them, Who helped you with your project and how they contributed, Things you are most proud of. Feel free to relate your 4-H experience to other parts of your life (school, home, family, friends, etc..). Stories must be at least five sentences.



## Project Photos



**\*\* Please limit yourself to a maximum of two photo pages. \*\***

Additional memorabilia should be displayed in a scrapbook or 4-H portfolio.

## **\*Optional– Record Book Scorecard**

4-H Members: Leave this page blank.

The person judging your project book will complete the scorecard.

| <u><b>Points Possible</b></u> | <u><b>Scoring Criteria</b></u>   | <u><b>Points Awarded by Judge</b></u> |
|-------------------------------|--|---------------------------------------|
| 10                            | <b>Neatness</b><br>(legible writing, one color ink, well-organized)  | _____                                 |
| 15                            | <b>Completeness</b><br>(all pages and sections, complete thoughts and ideas)   | _____                                 |
| 5                             | <b>Signatures</b><br>(member, parent, leader)  | _____                                 |
| 10                            | <b>Accuracy</b><br>(no math errors, factual statements made)   | _____                                 |
| 20                            | <b>Project work</b><br>(goals set, evidence of work throughout the year,<br>goals accomplished , book completed by 4-H member<br>not an adult) | _____                                 |
| 10                            | <b>4-H participation</b><br>(meetings, clinics, workshops, camps, contests,<br>educational experiences)  | _____                                 |
| 20                            | <b>Project story</b><br>(well-written, original, creative, complete thoughts,<br>grammer, mechanics)   | _____                                 |
| 10                            | <b>Photos</b><br>(include at least one photo– not more than two)   | _____                                 |
| <u><b>100</b></u>             |  | <u><b>Total:</b></u> _____            |

**Scoring:**      **90-100 Blue**              **75-89 Red**              **74-below White**

**Additional comments:**