



EXAMPLE RECORD BOOKS

SECTION 1 – PROJECT RECORD

The examples contained here are from actual 4-H youths' record books who won division-wide or overall championship titles for their record books. Personally identifying information has been deleted to the extent possible and in some cases records were recreated electronically, but otherwise the examples are in the state that they were submitted in. Details about the level of the 4-H member who submitted each example is listed below:

Project	Age Div.	Years in Project	Years in 4-H
Woodworking	Junior	3	3
Muzzleloading	Intermediate	1	4
Youth Leadership	Intermediate	3	4
Dairy Goat	Intermediate	5	5
Rifle	Intermediate	5	5
Rabbit	Intermediate	6	6
Knitting	Senior	7	7
Computers	Senior	2	8
Breeding Sheep	Senior	6	10
Food and Nutrition	Senior	10	10



SECTION 1
PROJECT RECORD

Member's Name: _____ Report Year: 2014-2015
4-H Project Being Reported: Wood Working
Name of Project Leader: _____
Year(s) Enrolled in 4-H: 3 Years Year(s) in This Project Area: 3 Years

GOALS

1.	Make a random pattern cutting board.
2.	To use the planer on my cutting board.
3.	Learn how to carve.
4.	

SIZE AND SCOPE

In total my cutting boards cost \$27.88. I bought black walnut, cherry and maple wood and wood glue. I also used clamps, a jig to hold them once glued, a table saw, planer, and sander. These I did not have to buy, my dad let me use them. I oiled them with food grade mineral oil. I sold my one cutting board for \$60.00 and got one dollar from fair. I am still waiting to sell my other cutting board for \$72.00. In total so far I have made \$61.00. In total I spent 9.5 hrs working on the two cutting boards.



WYOMING 4-H —

**SECTION 1
PROJECT RECORD**

PROJECT DESCRIPTION

A set of cutting boards. One with a random pattern and the other an end grain cutting board.

KNOWLEDGE AND SKILLS ACQUIRED

GOAL #1

This goal was completed in July when I finished my random pattern cutting board.

GOAL #2

I completed this goal when working on my end grain cutting board.

GOAL #3

This goal was not met. I decided not to spend time on learning carving this year as the other projects took priority. I maybe will work on this in the future.

SUMMARY

Project	County	State	National
Cutting boards	reserve	N/A	N/A



Member's Name: _____ Report Year: 2015-2016
4-H Project Being Reported: Muzzle Loading
Name of Project Leader: Glenn Zwig
Year(s) Enrolled in 4-H: 4 Year(s) in This Project Area: 1

GOALS

1.	I want to learn how to shoot a muzzle loader
2.	I want to learn how to load a muzzle loader
3.	I want to learn all of the safety a muzzle loader
4.	I need to learn how to take care of a muzzle loader

SIZE AND SCOPE

I am using my daddy's muzzle loading gun he used as a kid. Shooting muzzle loading comes with a lot of equipment and supplies. All of this was donated by my Grandpa Eddie.

I practiced one hour every other week from April-June at the rifle range. Also about three hours on my own time.

PROJECT DESCRIPTION

My daddy was talking to me and asking if I want to learn how to shoot a muzzle loader and I wanted to give it a try. I didn't know anything!! So I need to learn the basics and this is where I started:

Goal 1: Learn and show how to shoot a muzzle loader

Goal 2: Muzzle loading has a lot more steps when it comes to loading before shooting

Goal 3: I need to learn all the safety involved with muzzle loading.

Goal 4: It's very important to keep your muzzle loader very clean between each shot AND before storing.

I plan on getting with my daddy and Grandpa Eddie and have them give me lessons and attend practices.



KNOWLEDGE AND SKILLS ACQUIRED

Muzzle loading was amazing! This was my first year doing muzzle loading. The gun I used for this project is a Hawkin Muzzle Loader, the exact gun my daddy used when he was in 4-H. My daddy and grandpa Eddie are the two people who helped me with the project. First Grandpa showed me how to load a muzzle loader. And he showed me the difference and importance of modern powder versus black powder. The difference is the way they burn. Modern Powder burns too hot and be very harmful when shooting.

Safety is very important when working with all firearms. With muzzle loading I am handling gun powder. It's not a casing like other ammunition. Along with safety it is very important my barrel is cleaned before I shoot. I gained the knowledge of the importance of safety and handling a muzzle loader. I also gained the respect and patients it takes to load and fire a muzzle loader. Before shooting any rounds, I need to make sure the gun is clean between every shot otherwise the gun could explode.

As I was learning how to load the gun, I had to have my daddy helped me load rounds because I had a tough time pounding the ball. The first time I shot the gun it was magnificent!! As I was getting time in shooting, I was getting the skills it took to shoot at 25 yards and 50 yards. I learned shooting a muzzle loader is a lot different than anything else I shoot. Shooting a muzzle loader you can't be in a hurry because you could load your gun improperly and shoot improperly. Another big adjustment I had was getting using to using open sites. Open sites are not adjustable. And with that said, I have to adjust my aim versus adjusting sites.

Once I am finished shooting, it is extremely important to clean a muzzle loader, goes along with safety. It's important to get the gun powder residue out from the inside the barrel so there won't be a problem the next time I go to shoot. When it came time to store my gun, I had to actually use soap and water to clean my barrel and let it air dry. While cleaning, it sinks.... like rotten eggs! It's not too enjoyable.

I competed in three competitive shoots. County shoot, State shoot and Fair shoot.

SUMMARY

Project	County	State	National
Muzzle Loader- County Shoot	Purple, 1 st place		
Muzzle Loader- State Shoot		12 th place	
Muzzle Loader State Team		5 th place	

Muzzle Loader- 4-H Shoot	Red, 3 rd Place		
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Member's Name: _____ Report Year: 2015
4-H Project Being Reported: Leadership
Name of Project Leader: My Mom!
Year(s) Enrolled in 4-H: 4 Year(s) in This Project Area: 3

GOALS

1.	I WOULD LIKE TO CHAIR AND LED A COMMITTEE IN ADDITION TO JUST PARTICIPATING.
2.	I WOULD LIKE TO PERFORM WELL AS A TREASURER FOR MY CLUB.
3.	I WOULD LIKE TO BE IN A LEADERSHIP POSITION IN THE JUNIOR HIGH STUDENT COUNCIL.

SIZE AND SCOPE

PROJECT ACTIVITY	HOURS SPENT
Served as chairman of the carnival committee for my club.	5 hours
Participated as a leader at the leadership table at each of my 4-H club meetings.	7 hours
Performed my duties as treasurer of my 4-H club including managing the bank account, tracking income and expenses, collecting dues, and reporting to the club.	10 hours
Gave several presentations to my club to improve my public speaking skills.	1.5 hours



WYOMING 4-H —

**SECTION 1
PROJECT RECORD**

KNOWLEDGE AND SKILLS ACQUIRED

I had lots of practice speaking in front of my club. I continue to work on my presentation and public speaking skills.

I improved my parliamentary procedure skills.

I chaired a committee that had to plan and build our club 4-H carnival booth. This included attending and leading meetings, encouraging brain storming, presenting ideas to the club for approval, and then building the carnival booth approved by the club.

I researched and learned about the importance of failure to developing a good leader and how good leaders deal with failure as a part of growing.

As treasurer of my club, I learned that it is important for leaders to track and manage the money of their organization so that the organization can do the things it wants to do.

SUMMARY

Project	County	State	National
Indoor exhibit on leadership styles.	Grand Champion \$1.00 Premium \$20 Award Junior Awards Trip	Purple Ribbon	
2014 Leadership Record Book	1 st Place – Junior Champion- Division 9 book		



WYOMING 4-H

SECTION 1 Int PROJECT RECORD

Member's Name: _____ Report Year: 2014-2015
 4-H Project Being Reported: Dairy Goat
 Name of Project Leader: _____
 Year(s) Enrolled in 4-H: 5 Years Year(s) in This Project Area: 5 Years

GOALS

1.	Learn the steps of getting from Recorded Grade to Purebred in all dairy goat breeds.
2.	Learn about scoring system for linear appraisal for Sr. does.
3.	Learn how to get legs on my goats papers.
4.	

SIZE AND SCOPE

Income			Expenses		
#	Description	Cost	#	Description	Cost
1	Buck Kid	60.00	1	Goat Registration	4.00
3	Fair Awards	41.00	1	Goat paper transfer	4.00
			1	ADGA Membership	20.00
			6	Purina Goat Feed	319.00
			3	Goat coats	84.00
			6	Water and Electric	120.00
Total Income		101.00	1	Goat	375.00
Additional Information (Optional)					
6	The hay was kindly given by the Lazy				
	Rockin 6 Ranch, it cost.	806.25			
Total Expenses					926.00
6	I spent 180 hours with the goats.				
Total Income					101.00
Subtract Total Expenses					926.00
Equals Total Profit or Loss					-825.00



WYOMING 4-H —

SECTION 1 PROJECT RECORD

PROJECT DESCRIPTION

This 4-H year I had 6 goats, they are all LaManchas and LaMancha crosses. I showed two of them at the fuzzy goat show in Torrington. My Sr. Doe had twins, one buck and one doe. I sold the buck kid in May. I spent time clipping them, showing them, trimming their hoofs, feeding and watering them. I also spent time milking two of the does. I feed them Alfalfa and Grass hay, plus Purina Goat Feed. I worm them once a year orally with Ivomec. I also had them CI and CAE tested, the results came back negative.

MARKET SUMMARY

- * What was the market price per pound for your animal on the day you sold your animal?
_____¢
- * Where did you find the price? _____
- * What was the date you looked up the price? _____
- * What was your animal's value if it sold at an auction barn or coop market (weight of animal when sold x market price per pound)? \$_____
- * How much more money did your buyer give you than the market value of your animal?
\$_____. *Make sure you thank them properly!!*

KNOWLEDGE AND SKILLS ACQUIRED

Goal #1. I met this goal. I looked it up in the American Dairy Goat Association's guide book. It is very similar to get from recorded grade to purebred in every breed. For LaManchas there are 4 generations to get to purebred from a 50/50 doe.

Goal #2. I met this goal. I read this in the America Dairy Goat Association's book. I had bought a Sr. Doe that had been appraised so it is now easier to understand. My doe got 87 points. There are the 6 categorizes which your doe can be in. Here are the categorizes 1.Excellent 90 point or more. 2.Very Good 85-89 points. 3.Good Plus 80-84 points. 4.Acceptable-70-79 points. 5.Fair 60-69 points. 6.Poor 59 of lower.

Goal #3. I met this goal. I went to a diary goat show in Torrington and watched other people get legs on their goat and I also read how to in the American Dairy Goat Association's book. You have to win the class and there has to be ten other goats below you.

Other:

I also learned this year that if you worm your goats too many times a year they will become immune to that wormer. That is why I only worm my goats once a year.

SUMMARY

Project	County	State	National
Surata Yearling Doe	4th place	N/A	N/A
Fiala 2015 doeling	3rd place	N/A	N/A
Showmanship	Champion	N/A	N/A

Surya Sr. Doe County: 2nd place 4 years in milk, Reserve Sr. Doe and Reserve Overall Dairy Goat.



WYOMING 4-H —

SECTION 1 PROJECT RECORD

PROJECT DESCRIPTION

Air and .22 rifle I shot once a week at the Albany county shooting range. I shot light target for both .22 and Air Rifle. I shot at state shoot in Douglas, Wyoming. I shot on Tuesday nights with the new kids and it was fun to see their enthusiasm.

MARKET SUMMARY

- * What was the market price per pound for your animal on the day you sold your animal?
_____¢
- * Where did you find the price? _____
- * What was the date you looked up the price? _____
- * What was your animal's value if it sold at an auction barn or coop market (weight of animal when sold x market price per pound)? \$ _____
- * How much more money did your buyer give you than the market value of your animal?
\$ _____. *Make sure you thank them properly!!*

KNOWLEDGE AND SKILLS ACQUIRED

Goal #1. I met this goal. My dad told me the difference one day while we were shooting. Supersonic bullets go faster than the speed of sound and subsonic bullets go slower than the speed of sound. Subsonic bullets are also quieter.

Goal #2. Met. I learned the advantages to using a sling as I used it myself. My instructors also explained the advantages. The sling will help hold you steady, it will also help you with your natural point of aim. It helped me a lot with my natural point of aim. It helped me improve my scores by at least 20 points.

Goal #3. Met. During several weeks while the new kids were getting warmed up, I was able to sight in the rifle I was using on my own.

SUMMARY

Project	County	State	National
22 Rifle	3rd	4th	N/A
Air Rifle	3rd	8th	N/A
22 Rifle Team State Jr	N/A	1st	N/A
Air Rifle Team State Jr	N/A	2nd	N/A



Member's Name: _____ Report Year: 2016
4-H Project Being Reported: Rabbit
Name of Project Leader: Freda Dixon
Year(s) Enrolled in 4-H: 6 years Year(s) in This Project Area: 6 years

GOALS

1.	My goal is to improve the quality of my Holland Lop herd's type over a minimum of 2 generations.
2.	My goal is to improve my knowledge of the Netherland Dwarf's standards as published by the American Rabbit Breeder's Association. I want to be able to recall by memory the 100 points assigned to the breed and where they are assigned, know 3 faults of my showmanship rabbit, and to know by memory the 5 major groups of varieties of the breed and 2 varieties of each group.
3.	I want be able to recognize and know all 49 breeds of rabbits that are recognized by the American Rabbit Breeder's Association.
4.	I want to be able to recognize and understand the different body types and fur types of rabbits and know at least three breeds for each (when available).

PROJECT DESCRIPTION/MY PLAN: (INDICATE HOW YOU WILL ACHIEVE YOUR GOALS. AIM FOR 1-3 SENTENCES PER GOAL)

Goal 1: My plan for Goal #1 is to line-breed. I am going to breed two of my Holland's and once I get kit, I will breed one of the kits back to the dad. Hopefully I will be able improve the body of my Holland Lops.

Goal 2: My plan for Goal #2 is to study the ARBA Standards of Perfection, participate in Rabbit Project Meetings, and attend Rabbit shows and listen to the judge talk about the breed during my rabbit's showing. I will also talk with breeders, who also breed Netherland Dwarfs, to talk about my rabbit's faults so I am better able to identify them.

Goal 3: My plan for Goal #3 is to study my Standards of Perfection. I also plan on printing out pictures of all the breeds and work on knowing which ones are which. I will probably end up working on this once a week.

Goal 4: My plan for Goal #4 is to print out pictures of every breed of rabbit. Looking at each photo I will be able to work on determining the body type and fur types for each breed. I will probably work on this once a week like the weeks.

SIZE AND SCOPE:

EQUIPMENT I STARTED MY PROJECT WITH:

EQUIPMENT ON HAND	WHERE DID I GET IT?	HOW MUCH IS IT WORTH?
12 Hutches/Cages, Water bottles, feed dishes, floor mats, travel cages, grooming table, medical supplies, show carpet square, and rabbit food, tattoo wraps, exercise pen, salt licks, portable show table, and rabbit toys.	My parents bought them over the past five years from local retail stores, at rabbit shows, or former 4H members.	\$1,200
5 Holland Lop Rabbits	I purchased two from breeders and bred three.	\$300
2 Netherland Dwarf Rabbits	I purchased them from a breeder in Colorado.	\$185
1 Mini-Rex	My mom adopted him.	\$15
1 Himalayan Rabbit	Purchased from a local rabbit breeder.	\$35
	TOTAL:	\$1,735

WORKSHOPS, CLINICS OR OTHER PROJECT ACTIVITIES ATTENDED:

- Attended 4H Rabbit Project Meetings with Leader Freda Dixon
- Laramie Valley Rabbit Breeder's Association Member (Served as club's treasurer)
- Holland Lop Specialty Show, October 2015 (Loveland, CO)
- Rabbit Show Youth A/B, October 2015 (Loveland, CO)
- Rabbit Show Youth A/B, January 2016 (Brighton, CO)
- RHMS Colorado Rabbit State Convention, March 2016 (Brighton, CO)
- High Time Rabbit Club Show, May 2016 (Cheyenne, WY)
- Laramie Valley Rabbit Breeder's Youth Show A/B, June 2016 (Laramie, WY)
- Worked as Ram Rod for LVRBA Rabbit Show, June 2016 (Laramie, WY)
- Albany County Fair, ARBA Youth Show A/B, July 2016 (Laramie, WY)
- Wyoming State Fair, ARBA Open Show A/B, August 2016 (Laramie, WY)

RABBIT'S I BRED:

BREED	BUCK	DOE	DATE	KINDLED	# KITS	DEAD AT BIRTH	*PEANUTS	*FADERS	LIVE AFTER 12 WEEKS
Netherland Dwarfs	Whistle	Raspberry	9/22/15	10/22/15	3	0	0	3	0
Hollands	Sr. Buck Broken	Midnight	1/12/16	2/12/16	0	-	-	-	0
Hollands	Harrison	Charlie	1/20/16	2/20/16	4	4	0	0	0
Hollands	Harrison	Charlie	2/16/16	3/26/16	3	0	0	0	3
Hollands	Harrison	Midnight	3/13/16	4/13/16	3	0	0	0	3
Hollands	Harrison	Nala	3/13/16	4/14/16	2	2	0	0	0
				TOTAL:	15	6	0	3	6

*Peanuts are kits that get two dwarf genes, one from each parent, which is fatal. Faders are kits that don't survive after weaning.

PURCHASES & EXPENSES:

Expenses			Income		
#	Description	Cost	#	Description	Cost
8	Purina Rabbit Feed Bags	191.92	1	Holland Lop Doe AML7	15.00
3	Timothy Hay	26.18	1	Holland Lop Buck AML4	25.00
	Misc. Medical Supplies	72.00	1	Mini-Rex & Cage	35.00
	Entrance Fees to Shows	300.00	1	Holland Lop Buck "Carmel"	25.00
	Toys & Accessories	7.00	1	Netherland Dwarf Doe	35.00
	Showmanship Clothes & Supplies	110.00	1	Holland Lop Doe AML5	25.00
20	Pine Pellets for Litter	113.80	1	Holland Lop Buck AML8	15.00
1	Wormer Paste	10.98			
1	American Rabbit Breeder's Association 3-year Membership	70.00			
2	Sanction Fees for Rabbit Shows	40.00			
1	Laramie Valley Rabbit Breeder's Association Membership	5.00	1		
3	Cages with Urine Guards/Trays	185.00			
1	Holland Lop Doe, Sr.	80.00			
1	Holland Lop Doe, Jr.	60.00			
Total Expenses:		1,271.88	Total Income:		175.00



KNOWLEDGE AND SKILLS ACQUIRED (LEARNED OUTCOME):

Goal 1: To accomplish my goal I first breed my two Holland Lops, Midnight and Baby Harrison. Midnight gave birth to 5 kits. I sold all of the kits except one doe. I then rebreed Baby Harrison to this new doe, Charlie. The first time I breed them, Charlie gave birth to 4 dead kits. I then breed them a second time and this time she gave birth too 3 healthy kits. Charlie gave birth to 2 bucks and 1 doe. I feel that my breeding project this year was a success. At County Fair this year I won 2nd place for Dam & Daughter, which is where the mother and 1 of the babies are shown to see if we have improved our breeding lines. I also won 1st place for Get of Sire, which is were you show the father and three of the babies to see if you have improved your breeding lines. Although there were bumps in the road and I lost kits on the way I am glad with the results of this goal.

Goal 2: I do think I accomplished this goal. I started studying the Netherland Dwarfs standards in June and although I only studied about once a week I still had it memorized by time fair came around. I did talk about a lot of the standards when I did showmanship this year and I think that it helped me a lot.

Goal 3: To accomplish this goal I printed out pictures of each breed of rabbit and then I tried to figure out which was which. I figured out tips for breeds I would get stuck on and it really helped. It paid off in the end because I ended up getting 1st place in Breed ID.

Goal 4: This goal was a lot like Goal 3. I used the same pictures but this time I tried to figure out the body and fur type. I worked on this about once every week. This also helped me get 1st place in Breed ID.

SUMMARY (RIBBONS/AWARDS):

BOB: BEST OF BREED

BOS: BEST OPPOSITE SEX

BOV: BEST OF VARIETY

BOSV: BEST OPPOSITE VARIETY

BOG: BEST OF GROUP

BOSG: BEST OPPOSITE GROUP

BIS: BEST IN SHOW

BISR: RESERVE IN SHOW

Year	Month	Exhibited:	Where:	Placing:
2015	Oct.	Sr. Holland Lop, Buck	Holland Lop Specialty Show, Loveland, Colorado	BOV
2015	Oct.	Sr. Holland Lop, Buck	Youth Show B, Loveland, CO.	BOV
2016	March	Sr. Himalayan, Buck	Youth Show, Henderson, CO.	BOV
2016	May	Sr. Himalayan, Buck	Youth Show A, Cheyenne, WY.	BOSV & BOB
2016	May	Sr. Netherland Dwarf, Buck	Youth Show B, Cheyenne, WY.	BOV & BOG & BOSB
2016	May	Sr. Netherland Dwarf, Doe	Youth Show B, Cheyenne, WY.	BOV & BOG & BOB
2016	May	Sr. Holland Lop, Buck	Youth Show B, Cheyenne, WY.	BOV

2016	May	Sr. Himalayan, Buck	Youth Show B, Cheyenne, WY.	BOSV
2016	June	Sr. Netherland Dwarf, Buck	Youth Show A, Laramie, WY.	BOV & BOG & BOS
2016	June	Sr. Netherland Dwarf, Doe	Youth Show A, Laramie, WY.	BOV & BOG & BOB
2016	June	Sr. Himalayan, Buck	Youth Show A, Laramie, WY.	BOV & BOB & BISR
2016	June	Sr. Netherland Dwarf, Buck	Youth Show B, Laramie, WY.	BOV & BOG & BOS
2016	June	Sr. Netherland Dwarf, Doe	Youth Show B, Laramie, WY.	BOV & BOG & BOB
2016	July	Sr. Himalayan, Buck	Youth Show A, Laramie, WY.	BOV
2016	July	Sr. Netherland Dwarf, Buck	Youth Show A, Laramie, WY.	BOV & BOG
2016	July	Sr. Netherland Dwarf, Doe	Youth Show A, Laramie, WY.	BOV
2016	July	Sr. Himalayan, Buck	Youth Show B, Laramie, WY.	BOSV
2016	July	Sr. Netherland Dwarf, Buck	Youth Show B, Laramie, WY.	BOV & BOG
2016	July	Sr. Netherland Dwarf, Doe	Youth Show B, Laramie, WY.	BOV & BOG & BOB
2016	July	Sr. Holland Lop, Buck	Youth Show B, Laramie WY.	BOSG
2016	August	Sr. Himalayan, Buck	Albany County Fair, Laramie, WY.	BOB
2016	August	Colored Wool	Albany County Fair, Laramie, WY.	Grand Champion (1 st Place)
2016	August	Get of Sire	Albany County Fair, Laramie, WY.	Grand Champion (1 st Place)
2016	August	Dam & Daughter	Albany County Fair, Laramie, WY.	Reserve Grand Champion (2 nd Place)



KNOWLEDGE AND SKILLS ACQUIRED

Goal #1; Accomplished. It took a lot of practice, but I learned and successfully knitted with double pointed needles. I can now knit with anywhere from three to five double pointed needles. I knitted my hat with four double pointed needles, and now, I am working on a stuffed animal. I like knitting with double pointed needles now.

Goal #2; Accomplished. Fair isle is a knitted pattern made with two or more colors in the same row, that goes on for multiple rows. I learned and did a fair isle pattern with three colors, that I used on my hat. I learned how to read a chart for a fair isle pattern, too.

Goal #3; Accomplished. I made a tassel for my hat with two colors of yarn. The first tassel I made was the wrong size, but I can now make a nice tassel. I also know how to attach a tassel.

Goal #4; Accomplished. The hat pattern I used was slightly small, so I learned how to resize a hat pattern. The simplest way is to use a different size needle for the pattern. Another way to resize a hat pattern is to use a different weight of yarn: heavier yarn for a bigger hat, lighter, finer yarn for a smaller hat. Another method to resize a hat pattern is to measure the head of the person who will wear the hat, determine by what percentage the pattern needs to be changed, then change the whole pattern by that percentage.

SUMMARY

Project	County	State	National
Fair Isle Hat	Purple, Grand Champion, Judges Choice	Purple, Overall Grand Champion	



WYOMING 4-H

SECTION 1 PROJECT RECORD

Member's Name: _____ Report Year: 2013-2014
 4-H Project Being Reported: Computers
 Name of Project Leader: _____
 Year(s) Enrolled in 4-H: 8 Year(s) in This Project Area: 2

GOALS

1.	Learn how to adjust the layout between portrait and landscape orientation in a Windows 8 Metro App
2.	Learn why ASP.NET pages display as blank pages when viewed from a local drive
3.	Learn a few of the major differences between SQL and T-SQL
4.	Create at least 1 functional application using c++

SIZE AND SCOPE

Project	Developer Environments (IDEs) Used	Time spent (in hours)	Money Spent:	Money Gained:
4-H Record Book CD	VS Express 2012 for Web	12	\$ 0.00	\$ 11.00
Gestation Calculator for Windows 8.1	VS Express 2012 for Windows VS Express 2013 for Windows	16	\$ 0.00	\$ 16.00
Totals:		28	\$ 0.00	\$ 27.00
Profit or Loss:				\$ 27.00



KNOWLEDGE AND SKILLS ACQUIRED

Goal #1: I met this goal. I learned from the Microsoft Developer Network (MSDN) that, in order to change the layout when changing an app from portrait to landscape orientation, you must use a XAML (eXtensible Application Markup Language, Microsoft's XML document format that's used to define application interfaces) element called a storyboard. A storyboard is a resource that contains instructions for properties of interface elements, and how it should animate toward those instructions. For example, I wrote two different interfaces for my "Gestation Calculator for Windows 8.1" app, and placed them on two separate grid controls. Then, in the storyboard, I changed the "Visibility" property of each grid to "Visible" or "Collapsed" as needed. Once you have defined the storyboards, you need to write code in the "IsResized" event of the page to detect whether the app is in portrait or landscape and activate the correct storyboard. I used this information to write the "Gestation Calculator for Windows 8.1" app for the Windows 8 Metro System. "Metro" is Microsoft's app system that is entirely full-screen, touch-friendly, and revolves around the Windows Store, Microsoft's version of the app store.

Goal #2: I met this goal. I tried writing the 4-H Record Book CD in ASP.NET (Microsoft's web page format), because I wanted the CD to be platform-independent, and ASP.NET includes a lot of reusable code features, such as Master Pages and databound controls. I quickly discovered, however, that these pages appeared blank when I tried to open them from the CD in my browsers. I asked why this was on StackOverflow.com, the programmer's question and answer website. Several people answered and told me that this was because ASP.NET code is processed by the server, not the client, and that the server gives the client HTML code that corresponds with whatever the ASP.NET controls would say.

Goal #3: I met this goal. I bought a copy of Microsoft SQL Server 2012 Step-by-Step so that I could learn SQL Server and T-SQL.

(Continued on back.)

SUMMARY

Project	County	State	National
Gestation Calc. for Win 8.1	Superior / Grand	purple / 1st	
Record Book Web Site	Blue / Reserve	purple / 1st	
	Champion		

KNOWLEDGE & SKILLS ACQUIRED CONTINUED

T-SQL is Microsoft's implementation of SQL (Structured Query Language), but it is different enough that Microsoft renamed it Transact-SQL. I learned that T-SQL currently has a few advantages over SQL, but because they differ from SQL, they can be hard for a newcomer to the language. The things I found are:

The implementation of Normal Forms is different in SQL than T-SQL because SQL implements DOMAINS to make sure data remains normal, and T-SQL doesn't have DOMAINS. Instead, in T-SQL, you have to implement CHECK CONSTRAINTS, which are included in the table.

UNIONS and JOINS are easier in T-SQL than in SQL because of the simplified syntax of OUTER JOINS. In SQL, you must explicitly declare which values must be joined in your JOIN, but T-SQL takes care of that work for you. UNIONS are easier, because you can declare NULL columns in places where values don't delong. (For example, in a UNION of a table of cows and a table of bulls, I can declare NULL as BangsTagNumber, for the bulls table, because bulls don't get a bang's tag, usually.)

Error handling in T-SQL is much easier than in SQL. In SQL, you had to create a variable to hold the error state, then query it to make sure that no error occurred, and if one did, handle the error cleanly. This way a hard task, because SQL works on data in groups, and is not a procedural language in any way. T-SQL simplifies this by using a TRY block similar to Visual Basic .NET or C#. Developers place the code that could trigger an error in the TRY block, and then place code to handle the error in a CATCH block directly after it. The CATCH code is only called if there is an error, and while the developer still has to ask what error occurred, this is much simpler than SQL.

Goal #4: I met this goal. I checked out Beginnig Visual C++ by Ivor Horton from Coe Library. I built the first sample application in the book. After that, however, I discovered that Visual C++ Express, the free edition, only contains enough functionality to write simple, command-line applications. In order to use features such as the App-Wizard, which allow you to make fully functional applications, you need Microsoft Visual Studio, which cost upwards of \$500. There is a program, called Microsoft DreamSpark, where students can get Visual Studio for free. I might get this and make or edit a better Visual C application for next year. Until then, I learned that Visual Basic.NET contains most of the functionality of C++ in a simpler format.



OVERVIEW

Member's Name: _____
4-H Project Being Reported: <u>Breeding Sheep</u>
Name of Project Leader: <u>Father and Self</u>
Report Year: <u>2015-2016</u> Year(s) Enrolled in 4-H: <u>10</u> Years in this Project: <u>6</u>

GOALS

1.	I want to learn what hard-bag is, and how to treat it
2.	I want to learn a sound, practical way to dry-up a ewe after lambing
3.	To graze my ewes during the summer to reduce hay consumption
4.	To find out why my ewe began to have symptoms like white-muscle disease and how to treat it.
5.	
6.	

PROJECT DESCRIPTION

I had three bred last fall for my breeding project. I also grew out a ewe lamb for breeding in the fall of '16. All went well until December, when one of my Suffolk ewes began to have health issues. I first noticed that she was very stiff and didn't want to move. She would also tremor and seem to lose control of herself. I consulted a friend and he said to give her a sugar water drench. We also gave her a dose of vitamin E/selenium paste. Unfortunately, her condition worsened and she finally died. My other Suffolk ewe had healthy twin rams in February. My older Hampshire ewe, however, went over-due about two weeks. Finally she had triplets: 2 rams and one ewe. One ram and the ewe were stillborn. After lambing, the Hampshire ewe developed "hard bag," a disease that causes the ewe to stop producing milk. After treating her with some Penicillin, her bag softened and she successfully raised the remaining ram lamb. However, to avoid the problem next year, I sold the ewe at the auction yard in Fort Collins, CO. I had a successful show season and am hoping for better results next year.



SIZE & SCOPE

Project	Expenses	Time Invested	Income	Profit/Loss
2 Hampshire ewes: 1x6-yr-old and 1x8-mo-old	Ewe value on 10/1/2015 ... \$150.00	Fitting ... 3 hours	Show premiums - \$11.00	Lost 1 ewe and 1 ram lamb: <i>February '16</i> -\$50.00
	Ewe value on 10/1/2015 ... \$182.00 Grain, Alfalfa hay, Water, Electricity, Transportation, Stall rental ... \$200/head-Partially donated	Feeding ... 110 hours Showing ... 20 minutes Calculations/Misc ... 8 hours	Awards - \$15.00 Sales - \$220.91	
2 Suffolk ewes: 1x3-yr-old and 1x2-yr-old	Ewe value on 10/1/2015 ... \$110.00 Ewe value on 10/1/2015 ... \$110.00 Grain, Alfalfa hay, Water, Electricity, Transportation, Stall rental ... \$200/head-Partially donated			Lost bred ewe: <i>Dec. '13</i> -\$176.00
TOTAL:	Value of animals on hand: \$515.00 Expenses paid out: \$204.00	121 hours, 20 min.	\$246.91	\$20.91
Total Donated Money ... \$600.00				



KNOWLEDGE AND SKILLS ACQUIRED

1. I learned that lambs need access to more creep feed, and possibly more protein, when they are 1-3 months old before starting a gain plan for the fair. My lamb didn't get enough feed early-on in his life and I had to push him later in order to make weight for the county fair.
2. After one of my Hampshire ewes lambed, she developed a condition where her udder became very hard. After doing some research, I found out she had a disease called hard bag. It is caused by a bacteria that enters the udder through the teat, causing the tissue of the udder to swell and stop producing milk. I treated her with Penicillin for 4 days and she improved *a lot*. To prevent having to deal with the same problem next year, I sold the ewe later in the spring because culling affected ewes is essentially the only way to get it out of the flock.
3. I learned from a vet-tech that I should give a shot of vitamins A, D, and E every six months to maintain a balance in their system.
4. I learn from a sheep breeder that my ewe probably had a selenium deficiency and that I should give her a drench of basically glucose water to get her back on track. He also said that I should give her an injection of Bosee, a vitamin E/selenium injection. I ended up losing the ewe, but as a preventative action, I began feeding a ration that was specially formulated for ewes and had higher content of vitamin E and selenium.

EXHIBITION SUMMARY

Project	County	State	National
Senior showmanship	Reserve Champion		
Hampshire breeding ewe	Reserve Champion		



OVERVIEW

Member's Name: _____
4-H Project Being Reported: <u>Food and Nutrition</u>
Name of Project Leader: _____
Report Year: <u>2015-2016</u> Year(s) Enrolled in 4-H: <u>10</u> Years in this Project: <u>10</u>

GOALS

1.	I want to find and make a more challenging recipe, such as sponge cake, this year
2.	I want to learn about the effects that our altitude (7,200 ft) might have to do with the success or failure of making a sponge cake
3.	I want to experiment with freezing cookie dough in balls, and baking them later
4.	I want to try making doughnuts using rice
5.	
6.	

PROJECT DESCRIPTION

This year I found a delicious recipe for a "Coffee Cloud Cake." This was an interesting experience since it was the first time I had ever made a sponge cake. I was very pleased when it came out light and fluffy like it was supposed to.

I also had fun experimenting with freezing balls of Molasses Cookie Dough. I came up with the idea around Christmas as a way of help cut down on hassle around the "holiday baking" time. I made a batch of dough and froze the balls on a baking tray, then put them in a Ziploc bag for storage in the freezer. Then, when I was ready to bake them, I first let them thaw out, and then baked them for the regular time amount. They came out beautifully and I am very eager to use this approach again.

Then for fair I made some Cream Cheese-Chocolate Marbled Brownies. These were very easy to make, but they tasted very good!

I found a recipe for some rice doughnuts and it really piqued my interest. So ... I made a batch. They were actually pretty good! But since I made doughnuts last year for fair, I decided not to enter these ones this year.

SIZE & SCOPE

Income Description	Amount	Expense Description	Amount
Premiums	\$3.00	Cream Cheese	\$2.50
Total Income	\$3.00	Total Expense	\$2.50



KNOWLEDGE AND SKILLS ACQUIRED

I learned how to make a sponge cake, which turned out beautifully!

I also learned some of the reasons why making sponge cake can be so difficult at our altitude. For example, the egg whites may be not beaten enough, or they might actually be beaten too much (this surprised me quite a bit), or the presence of too much (or too little) humidity in the air can also have a negative effect on the egg whites.

I learned that it is possible to freeze cookie dough for later use. I plan to use this technique in my own housekeeping in the future.

I got some experience making doughnuts using rice as a main ingredient. Though they did taste pretty good, I'm not sure that I (or my family) like them enough for me to make them again in the near future. But it was a very interesting experience and I'm glad I did it.

EXHIBITION SUMMARY

Project	County	State	National
Coffee Cloud Cake	Purple, Champion	Blue	
Soft Molasses Cookies	Purple	Blue	
Cream Cheese-Chocolate Brownies	Blue		
Rice Doughnuts*	None		

*I decided not to turn these in for fair since they were very similar to my doughnut project last year.