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 additional information was added to fully satisfy the updated requirements or to provide clarification based on another part of the record book. Details about the level of the 4-H member who submitted each example is listed at the beginning of each example.

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OVERVIEW

Member's Name: Peter Rabbit
4-H Project Being Reported: Rabbit
Name of Project Leader: Frieda Dixon
Report Year: 2015-2016 _Year(s) Enrolled in 4-H: 6 _____ Years in this Project: 6 ____

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).
5.	
6.	

PROJECT DESCRIPTION

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.

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http://wyoming4h.org/albany4h/record-book/

SIZE & 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 matts, 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)

RABBITS 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.

FINANCIAL INFORMATION

#	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

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KNOWLEDGE AND SKILLS ACQUIRED

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.

EXHIBITION SUMMARY

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

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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 (1st Place)
2016	August	Get of Sire	Albany County Fair, Laramie, WY.	Grand Champion (1st Place)
2016	August	Dam & Daughter	Albany County Fair, Laramie, WY.	Reserve Grand Champion (2nd Place)

OVERVIEW

Member's Name: <u>Vincent van Gogh</u>
4-H Project Being Reported: <u>Visual Arts</u>
Name of Project Leader: <u>None</u>
Report Year: <u>2015-2016</u> Year(s) Enrolled in 4-H: <u>6</u>   Years in this Project: <u>4</u>

GOALS

1.	My first Goal is to learn how to work with three or more different types of pencil leads and a blending tool to create the illusion of 3-D shapes on a 2-D sheet of paper and to create the illusion of texture.
2.	My second Goal is to learn how to use masking tape as a painting technique. To use it to preserve white space, create shapes, and to create lines within my paintings.
3.	My third Goal is to learn about the surrealist art movement. I will learn about one surrealist artist.
4.	
5.	
6.	

PROJECT DESCRIPTION

Goal 1: To accomplish this goal I will work on the techniques of shading and blending at home and in art class. I plan on working on different types of texture and see what I can do with different blending techniques. I hope to use this technique to make an art project for fair this year.

Goal 2: For my second goal I am going to figure out different designs I can use the tape on. I will also look for good tape to use to make sure paint doesn't leak underneath. I have seen this technique used a lot online so I hope for mine to work.

Goal 3: I am planning on learning about Salvador Dali. His work is very incredible and I think learning about him will help me understand more about surrealism.

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SIZE & SCOPE
EQUIPMENT I STARTED MY PROJECT WITH

Equipment on Hand	Where did I get it?	How much is it worth?
Acrylic Paint	Already Had	
Canvas	Already Had	
Graphite Pencils	Already Had	
Paper	Already Had	
Sponge brushes	Wal-Mart	$10
Painters Tape	Already Had	
TOTAL:		$10

PURCHASES & EXPENSES

Expenses			Income		
#	Description	Cost	#	Description	Cost
1 pack	Sponge Brushes	$10			
Total Expenses:		$10	Total Income:		$0

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KNOWLEDGE AND SKILLS ACQUIRED

<u>Goal 1</u>: I practiced this goal at home and at school. I used my blending stick to work on blending. I used different types of pencils to help blend and to see the difference. I also used the different pencils to create different types of textures

<u>Goal 2</u>: I ended up using painters tape, which was the best tape for leaks. I figured out that you could make shapes and patterns using the tape. I also learned that you have to peel the tape of right after you are done so the paint doesn't peel off with it.

<u>Goal 3</u>: I learned about Salvador's' different work and his ideas. His ideas are very interesting and after learning about him I would like to learn about some more surrealist artists. I ended up interpreting his famous melting clocks painting into on of my pieces, which I entered in fair.

EXHIBITION SUMMARY

Year	Month	Exhibited:	Where:	Placing:
2016	August	Tape Painting	Albany County Fair, Laramie, WY.	1st Place Ribbon
2016	August	Surrealism Drawing	Albany County Fair, Laramie, WY.	Reserve Grand Champion

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OVERVIEW

Member's Name: Annie Oakley
4-H Project Being Reported: Muzzleloading
Name of Project Leader: Glenn Zwig
Report Year: 2015-2016 _Year(s) Enrolled in 4-H: 4 _____ Years in this Project: 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
5.	
6.	

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.

SIZE & 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.

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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.

EXHIBITION SUMMARY

Project	County	State	National
Muzzle Loader- County Shoot	Purple, 1st place		
Muzzle Loader- State Shoot		12th place	
Muzzle Loader State Team		5th place	
Muzzle Loader- 4-H Shoot	Red, 3rd Place		

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OVERVIEW

Member's Name: <u>Frank Canton, Jr.</u>
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.

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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 Ewe value on 10/1/2015 … $182.00 Grain, Alfalfa hay, Water, Electricity, Transportation, Stall rental … $200/head- Partially donated	Fitting … 3 hours Feeding … 110 hours Showing … 20 minutes Calculations/Misc … 8 hours	Show premiums - $11.00 Awards - $15.00 Sales - $220.91	Lost 1 ewe and 1 ram lamb: *February '16 -$50.00*
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: *Dec. '13 -$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				

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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		

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OVERVIEW

Member's Name: <u>Frank Canton, Jr.</u>
4-H Project Being Reported: <u>Market Sheep</u>
Name of Project Leader: <u>Self/Father</u>
Report Year: <u>2015-2016</u> Year(s) Enrolled in 4-H: <u>10</u> Years in this Project: <u>9</u>

GOALS

1.	To learn how to train my lambs to brace
2.	To exercise my lamb 1.5 miles per day for the month of July to reduce his "hay belly" and make him more trim-looking for exhibition at the fair
3.	I want to clip my lamb a few days before the fair, as this should free up time and reduce stress at the county fair
4.	I want to try a new method of halter training my lambs
5.	
6.	

PROJECT DESCRIPTION

I had a really good year with my market sheep. I kept 2 weather lambs from my breeding ewe to use as my market projects. One was a larger lamb who I named John. His brother I named James. Although James was smaller, he had a really nice frame and muscling. However, the two lambs actually placed opposite to what I expected them to. When preparing for the fair, I was disappointed to find out that my lambs wouldn't brace by instinct. I found some helpful resources and was able to at least begin training them to brace. However, I should have started earlier in the year because it would have been easier to train them and they probably would have retained the training better. Next year I hope to implement a VERY rigorous exercising program in order to get the lambs heavier muscled and better finished.

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SIZE & SCOPE

Project	Expenses	Time Invested	Income	Profit/Loss
Market lamb-whether Home raised	Lamb value at 98 days … $180.60 Grain … $72.00-donated Alfalfa hay … $16.00-donated Water, electricity, transportation, stall/paddock rental … $50.00-donated	Fitting … 3 hours Feeding … 110 hours Showing … 1 hour Weighing, training, and calculation … 6.5 hours	Premiums $5.00 Auction $1300	$1305.00
2 Suffolk ewes: 1x3-yr-old and 1x2-yr-old	Lamb value at 98 days … $121.80 Grain … $72.00-donated Alfalfa hay … $16.00-donated Water, electricity, transportation, stall/paddock rental … $50.00-donated	Fitting … 2 hours Feeding … 29 hours Showing … ½ hour Weighing, training, and calculation … 2 hours	Premiums $2.00	-$119.80
TOTAL:	**Value of animals on hand: $302.40**	**73 hrs**	**$1307.00**	**$1183.20**
Total Donated Money … $276.00				

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KNOWLEDGE AND SKILLS ACQUIRED

1. My market lambs didn't brace on instinct, like other lambs I have raised. However, after doing some research, I learned some helpful insights and methods to training a lamb to brace.
2. I learned that I needed to feed my lamb more grain earlier in the year so that he gained better. I July I put him basically on full feed to ensure that he made weight by the county fair.
3. This year I tried a new method of halter training on my lambs. I learned about it from a horse training book that I read a while ago. Basically, there is rope strung from the shoulder of the animal around under their tail. When trying to make them respond to the halter, the trainer gently pulls on the rope to give the animal an incentive from behind. My lambs did alright with the training, but I think a more significant time investment would help too.
4. I was able to exercise my lamb for two weeks in July, basically every day. It was a big commitment, but I think the lamb definitely improved in body condition. Next year I hope to exercise more regularly for 1-2 months before the fair to get better results.

EXHIBITION SUMMARY

Project	County	State	National
Showmanship	7th		
Market whether	4th		
Market whether	3rd		

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OVERVIEW

Member's Name: Betty Crocker _____
4-H Project Being Reported: Food and Nutrition _____
Name of Project Leader: Bessie Crocker _____
Report Year: 2015-2016 _Year(s) Enrolled in 4-H: 10 _____ Years in this Project: 10 ___

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**

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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.

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OVERVIEW

Member's Name: <u>William Gates</u>
4-H Project Being Reported: <u>Computers</u>
Name of Project Leader: <u>Mr. William H. Gates, Sr.</u>
Report Year: <u>2015-2016</u> Year(s) Enrolled in 4-H: <u>8</u>   Years in this Project: <u>2</u>

GOALS

1.	Learn how to adjust the layout between portain 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 one functional application using C++
5.	
6.	

PROJECT DESCRIPTION

   I started working on this project in October. I asked my extension agent if I could make a disk that contained all of the record book forms and judging standards. She gave me the go-ahead, and I built a companion "web app" using Microsoft Active Server Pages .NET (ASP.NET). I noticed a problem, though, so I switched to HTML and completed the project by January 1.

   I also got the idea of retargeting my gestation calculator computer program so that I could sell it on the Windows store. What should have taken a few minutes to do took many hours, but finally I had it done except for the settings pane. My Dad updated our computer to Windows 8.1 and then I used a premade settings pane template, and everything worked like it was supposed to.

SIZE & SCOPE

Project	Developer Environments (IDEs) Used	Time Spent (in hours)	Money Spent	Money Gained
4-H Record Book CD	VS Express 2012 for Web	72	$0.00	$11.00
Gestation Calculator for Windows 8.1	VS Express 2012 for Windows VS Express 2013 for Windows	96	$0.00	$16.00
Totals		168	$0.00	$27.00
Profit or Loss				$27.00

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KNOWLEDGE AND SKILLS ACQUIRED

Goal #1:   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 Languague: Microsoft 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 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.

Goal #2:   I met this goal. I tried writing the 4-H Record Book CD in ASP.NET, because I wanted to 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. 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 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 belong. (For example, in a UNION of a table of cows and a table of bulls, I can declare NULL as BangsTagNumber, because bulls don't get a Bangs' tag usually.)

Error handling is much easier in T-SQL 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 was 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.

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http://wyoming4h.org/albany4h/record-book/

Goal #4:   I met this goal. I checked out *Beginning 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 create fully functional applications, you need Microsoft Visual Studio, which costs upwards of $500. There is a way 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.

EXHIBITION SUMMARY

Project	County	State	National
Gestation Calc for Win 8.1	Superior/Grand Champion	Purple/1st	
Record book website	Blue/Reserve champion	Purple/1st	