



Amalgamated Sugar

Pure. Sweet. Grower-Owned.

Snake River Sugar Company

Youth Grower

Record Book

2019

Name:	Age as of Jan. 1st:
Date of Birth (MM/DD/YY):	Years in Youth Grower Project:
Area Group or 4-H Club:	
I declare that the information in this book is correct and all Youth Grower Project requirements have been completed to the best of my knowledge.	
Member' Signature:	
Parent's Signature:	
Authorizing Signature:	

Ethical Expectations Participants

All participants within the program (Youth Growers, project volunteers, parents, leaders, etc.) are always expected to conduct themselves in an ethical manner. Ethics are principles of accepted behavior that outline how individuals should act; it deals with the ability to tell right from wrong and being committed to do what is right. While some situations may occur where there is not a “clear cut” answer to whether the action or practice is ethical, an ethical alternative always exists. Using the Six Pillars of Character, (established by the Josephson Institute), listed below, can help guide you in making good ethical decisions.

The Six Pillars of Character

Trustworthiness- Be honest. Don't deceive, cheat or steal. Be reliable-do what you say you'll do. Have the courage to do the right thing; Build a good reputation. Be loyal-stand by your family, friends and country.

Respect-Treat others with respect. Be tolerant of differences. Use good manners, not bad language. Be considerate of the feelings of others. Don't threaten, hit or hurt anyone. Deal peacefully with anger, insults and disagreements.

Responsibility- Do what you are supposed to do. Persevere; keep on trying! Always do your best. Use self-control. Be self-disciplined. Think before you act-consider the consequences.

Fairness- Play by the rules. Take turns and share. Be open-minded; listen to others. Don't take advantage of others. Don't blame others carelessly.

Caring- Be kind. Be compassionate and show you care. Express gratitude. Forgive others. Help people in need.

Citizenship- Do your share to make your school and community better. Cooperate. Get involved in community affairs. Stay informed; vote. Be a good neighbor. Obey laws and rules. Respect authority. Protect the environment.

*Use this acronym to help you remember that people with good character are terrific: (TRRFCC).

Ethics is an important part of everyday life. If you choose to act unethically or allow others around you to do so, you not only tarnish your reputation but also discredit your family, club and the program; no prize or award is worth this in the long run. Remember, only one person ultimately controls the decisions you make and that is you. As a participant, we trust you will make ethical choices not only within the program, but in everyday life, too.

Objectives

1. To stimulate interest in growing sugar beets.
2. To learn effective crop management for sugar beet production. INCLUDING:

• Fertilization	• Irrigation	• Harvest
• Insect Control	• Disease Control	• Weed Control

3. To keep appropriate records
4. To gain knowledge of the sugar industry.
5. To gain self-confidence and learn responsibility through experience and successful completion of the project.

Requirements

You will:

1. Must be 8 years old and not older than 18 by January 1 of current project year.
2. Youth Grower must be directly connected to a Member of the Snake River Sugar Company. Connections other than that of family members will be reviewed and either approved or denied by the Youth Grower Project Committee. Special circumstances may be granted with written application for the review of the YGP committee.
3. Youth Grower must reside within the boundaries of the same Grower Association as the connected Member to be eligible.
4. Sign an Amalgamated Grower Contract for Youth Sugar Beet Project.
5. Own your own project with a Project Agreement/Contract with your parent or landlord covering machinery, labor, seed, etc. This must be signed by your parent, land owner and leader.
6. Participate in the annual presentation fair of sugar beet projects. If you are not able to attend the presentation fair, you will need to notify the program coordinator and turn in your presentation board prior to the fair. A make-up presentation will be scheduled prior to the County Fair. Parents are encouraged to attend the fair.
7. Participate in an interview with appointed judges. (May be at the Presentation Fair or County Fair – up to the discretion of Program Coordinator)
8. Participate in a club service project.
9. Exhibit record book, presentation board and 3 sugar beets at county fair.
10. Attend 6 group/club meetings
11. Turn in completed record book with harvest information the 2nd Monday of December.
12. In your final year of enrollment – if you are aware of any reason why you might not be available to complete the project (i.e. college, church service, etc.), you must submit a written plan to the Youth Grower Project Committee of how to complete your project.

Failure to complete any portion of this project will disqualify Youth Grower in any future Youth Contracts.

Exhibits

1. Display and Present Research and Presentation Board at Presentation Fair – according to attached instructions.
2. Display of 3 sugar beets according to directions on pg. 18 of this manual for judging
AND
3. Display your up to date Amalgamated Youth Grower Record Book at the fair for judging
4. Turn in your COMPLETED Amalgamated Youth Grower Record Book with Harvest Information on the 2nd Monday of DECEMBER for final judging.

Project Agreement

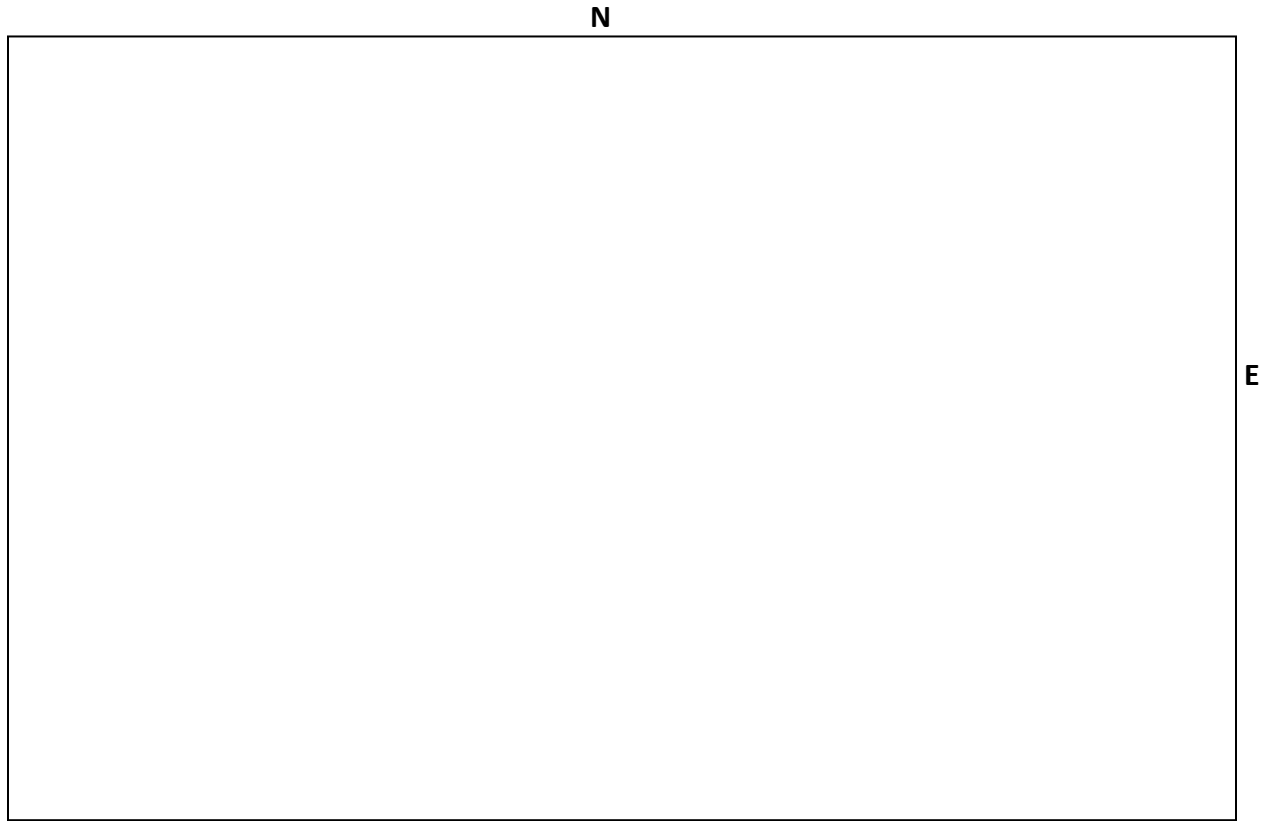
Detail the agreement concerning land, equipment, machinery, seed, fertilizers, chemicals, labor, harvesting, dates of agreement, etc. Items to include: Description of project, Time of Agreement, Financing, Equipment, Land Agreement, Harvest Costs, Rent and Water.

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Signatures

Youth Grower Signature:
Land Owner Signature:
Parent's Signature:
Leader's or Authorized Signature:

Plot of Your Farm



Acreage for your Sugar beet Project should be accurately plotted from KNOWN REFERENCE POINTS on the map above. (In a larger field, the description of your acreage might read: rows 20-40 from the west side of the southwest quarter; or all sugar beets from the north boundary of Field G to a point 200' from this boundary; or any way to designate your project acreage in relation to home farm.) A Google map is acceptable as long as the acreage for you project is designated on the map.

Physical Address:
GPS from Contract:
Description:
Contract Number:
Field Number:

Cultural & Management Practices on Your Project

Soil Type (check one)

- Clay
- Clay loam
- Loam
- Sandy loam
- Sandy

Soil Test Report

Soil test taken: Yes No Date _____ 20 ____

Test Results:

pH _____, Organic Matter,% _____, Organic N, LBS/Acre _____

Ammonium – N, ppm _____, Nitrate – N ppm 1st Foot _____ 2nd Foot _____, 3rd _____

Phosphate, ppm _____, Potassium _____,

Recommendations of Nitrogen _____, Phosphate _____, Potassium _____,

Irrigation (check one)

- Pivot
- Wheel Line
- Hand Line
- Gravity

Set Durations (check one)

- 12 Hour
- 24 Hour
- Other: _____

Total Acres in field that the project is located? _____

Crop History (fill in)

1. Last year's crop _____
2. Two years ago crop _____
3. Three years ago crop _____

Tillage (check all that apply)

- Fall plowed
- Chisel plowed
- No primary tillage
- Deep Rip
- Other: _____

Seed Bed Prep (check all the apply)

- Fall or winter secondary tillage
- No spring tillage
- One pass tillage in spring
- Tilled two or more passes in spring

Fertilizer Program

Name of Fertilizer Dealer AND Field man: _____

A. Fall application:

Units/acre: N: _____ P _____ K _____

Products used: _____

B. Spring Application:

Units/acre: N: _____ P _____ K _____

Products used: _____

C. Starter Fertilizer at Planting:

In row with planter:

Units/ acre: N: _____ P _____ K _____

Products used: _____

D. Additional Nitrogen applied:

Form of nitrogen: _____ Liquid _____ Dry

Units/acre _____ Products used: _____

E. Total Fertilizer applied to crop:

Actual units: N: _____ P _____ K _____ /acre

Planting – Seed

1. Date of planting project: _____
2. Seed Variety Description: _____
3. Seed size/treatment: _____
4. Seeds per acre: _____
5. Depth seed planted: _____ inches
6. Seed spacing in each row: _____ inches
7. Row width: _____ inches
8. Planter type: _____ No rows _____

Soil Quality/Wind/Erosion control (check any that apply)

- Planted on flat
- Planted in fall-seeded cover (such as fall grain, strip till, etc.)
- Planted in spring-seeded cover (such as grain, strip till, etc.)
- Planted on Fall Bed
- Planted on Spring Bed
- Early cultivation (Erosion Control)
- Rows planted north and south

Rate your Erosion Control: Excellent Good Fair Poor

Explain:

Stand – Beets per 100' of row

1. Date Determined Stand/or Replant _____
2. Date Determined Stand if Replanted _____

How did you determine stand? Explain:

Pesticides used (list all used)

1. Preemergence (weed control):

2. Postemergence (weed control):

3. Insecticide:

4. Fungicide:

5. Nematicide:

Weed Control (check any that apply)

___ Excellent ___ Good ___ Fair ___ Poor

How controlled:

___ By herbicide

___ By hand labor

___ By cultivation – number of times cultivated _____

1. Dates Scouted Field:

Crop Stress (check any that apply)

date detected

date treated

Insect Damage

___ Root Maggot

___ Nematodes

___ Aphids

___ Rodents

___ Wireworm

___ Leaf Minor

Disease:

___ Powdery Mildew

___ Seeding Damage

___ Rhizomania

___ Rhizoctonia

___ Leafspot – Cercospora

Environment:

___ Herbicide damage

___ Frost

___ Damp Off

___ Wind

___ Crusting

Moisture at Planting:

___ Dry ___ Damp ___ wet

Did you have to water crop up? ___ yes ___ no

What was done to mitigate the crop stress?

Harvest Results (completed)

Lbs. of sugar per acre

Tons per acre

Lbs. of sugar per ton

Percent Sugar

Percent Tare

Date of Harvest

Nitrate

Conductivity

Financial Report (Total Project - all income and cost in dollars per acre x 2)

	BUDGET	ACTUAL (at completion)
Income: (gross dollar per acre x 2)	_____	_____
Yield/Acre _____		
Price/Ton _____		
Expenses:		
a. Total fertilizer	_____	_____
b. Seed	_____	_____
c. Herbicides	_____	_____
d. Insecticides	_____	_____
e. Fungicides	_____	_____
f. Labor		
g. Equipment		
1. Primary Tillage	_____	_____
2. Seed bed preparation	_____	_____
3. Plant	_____	_____
4. Spray (application only)	_____	_____
5. Cultivate	_____	_____
6. Harvest costs as per agreement	_____	_____
7. Other _____	_____	_____
8. Other _____	_____	_____
9. Other _____	_____	_____
10. Other _____	_____	_____
11. Other _____	_____	_____
12. Other _____	_____	_____
13. Other _____	_____	_____
14. Other _____	_____	_____
h. Land Cost	_____	_____
i. Interest cost	_____	_____
j. Association Dues	_____	_____
 TOTAL EXPENSES	 _____	 _____
 Net profit or (loss) “Income – Total Expenses”	 _____	 _____

Project Skills:

Minimum number of project skills to be completed: Juniors – 1, Intermediates – 2, Seniors – 3

Skill to Learn 1: _____

Describe the skill you learned/ or are learning, why it is vital to this project and how/when you will use this skill.

Skill to Learn 2: _____

Describe the skill you learned/ or are learning, why it is vital to this project and how/when you will use this skill.

Skill to Learn 3: _____

Describe the skill you learned/ or are learning, why it is vital to this project and how/when you will use this skill.

Project Journal

Write a brief description of each activity you have done during this project year.

Examples Listed Below

Date	Self Hours	Description of Activity	Price/Acre	Total Income	Total Expense
11-Jan	0.5	<i>Signed sugar beet contract</i>	<i>N/A</i>		
11-Apr	0.5	<i>Paid rent to Grandpa</i>	<i>\$100</i>		<i>\$200</i>

Project Journal cont.

Date	Self Hours	Description of Activity	Price/Acre	Total Income	Total Expense

Post Fair Project Journal

Write a brief description of each activity you have done since the fair for this project.

Date	Self Hours	Description of Activity	Price/Acre	Total Income	Total Expense

Research Topic

Impact Statement (post harvest)
How has this project & experiences this year impacted me & my future?

What would you do different?

Member's Participation in Project

Project Point Breakdowns

	Possible Score
Beet Presentation Fair	50
Record Book (see attached Rubric)	55
Sugarbeet Exhibit (Ribbon)	5
Blue – 5	
Red – 3	
White – 1	
Fair Interview	20
TOTAL POSSIBLE POINTS	130
TOTAL PARTICIPANT'S POINTS	_____

Preparing Sugar beets for Exhibit

Selecting 3 uniform sugar beets from your project is quite difficult. You can have a good exhibit if you know what you want, how to find it, and prepare it to show best.

Your exhibit should represent your beet crop. You will find your best beets in the part of the field where the soil is mellow and there is a good stand of beets. The extra-large beets are found at row ends or other areas of the field where a single is isolated from others with no competition. These beets are usually rougher, with large multiple crowns, and usually have several sprangled roots. You should try to select beets that have the following characteristics.

- A. UNIFORM - As near as possible, the same size and shape.
- B. SIZE - 2-4 lbs. to meet industry standards.
- C. SHAPE - Beets that are long and thick and carry the thickness well down are more desirable than shorter beets or long beets, which do not have much thickness in the lower $\frac{3}{4}$ to $\frac{1}{2}$ the beet. Beets that are thick in every direction, rather than flat, are preferred.
- D. CROWN - The crown should be short, small, and free from hollow areas and clean so that topping will take away only a minimum weight and tare will be low.
- E. ROOTS - A beet with a single heavy root is preferred to a multiple root or sprangled rooted beet. Beets with secondary roots should be trimmed. If a secondary root is larger than $\frac{1}{2}$ in diameter it should not be used. The root should be free of insect and/or disease damage.

A well-prepared sample of 3 beets makes a very attractive exhibit. After selecting the desirable beets, soak the dirt off rather than brushing. Brushing and rough handling scratches the skin, which will turn the surface dark. Do not use chlorine bleach as it deteriorates the skin and causes it to turn black. Cut off the top square at a point where it forms a 2-inch diameter cut. Trim the remainder of the crown from the bottom leaf scar to the 2-inch diameter cut. The beet should be able to stand on the crown end with the long tap root standing upright.

Amalgamated Sugar Company has special awards for the best sugar beets and the largest sugar beet.

Sugar Beet Grower Book

Deductions: Redundant Information - excessive information - above the required information will result in -1 pt per page. Only 1 page (front and back) of pictures is allowed. Pictures are NOT required.

<u>Item</u>	<u>JR/INT/SR</u>	<u>Possible Pts</u>	<u>Full Points</u>	<u>Middle Points</u>	<u>Low/No Points</u>
Project Agreement	JR/INT/SR	2	Grower has given a thorough description of their agreement. Agreement both protects the Grower as well as the Land Owner with a planned thought process	Grower's description is less than complete. They describe how they started, but without showing a planned thought process.	Grower's description is vague. It shows little evidence of a plan or reason for this choice other than chance.
Plot of Your Farm	JR/INT/SR	2	Grower has drawn or included a map of the field. Included are all Descriptors and Identifiers	Grower has drawn or included a map of the field. Included some descriptors.	Grower has a map of the field. No descriptors.
Soils	JR/INT/SR	1	Completed	Information not complete	No information
Soil Test Report	JR/INT/SR	2	JR: Soil Test Taken & Date INT/SR Information is complete and report is attached.	INT/SR Information is complete, no report.	JR: No information INT/SR Incomplete information
Irrigation	JR/INT/SR	1	Completed	Information not complete	No information
Crop History	JR/INT/SR	1	Completed	Information not complete	No information
Tillage & Seedbed Prep	JR/INT/SR	2	Completed	Information not complete	No information
Fertilizer Program	JR/INT/SR	3	JR: Fertilizer Dealer and Field man identified. Total fertilizer applied is completed. INT/SR Information is complete.	JR: Total fertilizer applied is not complete. INT/SR Some information is missing.	JR: No information INT/SR Incomplete information
Planting	JR/INT/SR	2	Completed	Information not complete	No information
Soil Quality/ Wind Erosion Control	JR/INT/SR	1	Completed	Information not complete	No information
Stand	JR/INT/SR	2	JR: Stand at first cultivation with an explanation. INT/SR All information is complete.	JR: Stand at first cultivation with no explanation. INT/SR Some information is missing.	JR: No information INT/SR Incomplete information
Pesticides Used	JR/INT/SR	2	JR: Chemical used and date applied. INT/SR Realistic and complete information Rates and date of application are included.	JR: Chemical used. INT/SR Realistic and complete information. Date of application is included.	JR: No information INT/SR Chemicals used
Weed Control	JR/INT/SR	1	Completed with dates.	Completed, no dates.	No information
Crop Stress	JR/INT/SR	3	Crop stressors are identified with the date of identification.	Crop stressors identified, missing dates.	No information
Harvest Results	JR/INT/SR	1	Completed	Information not complete	No information

Sugar Beet Grower Book

<u>Item</u>	<u>JR/INT/SR</u>	<u>Possible Pts</u>	<u>Full Points</u>	<u>Middle Points</u>	<u>Low/No Points</u>
Financial Report	JR/INT/SR	4	Summary shows expected incomes and expenses. Incomes and expenses are related to this project. Transactions are consistent with the crop managed.	Summary shows one or more unexplained inconsistency versus the industry standard. Unexplained income or expenses appear.	Summary does not show expenses or receipts consistent with the industry. Returns do not support management decisions made.
Project Skills	JR-1 skill INT-2 skills SR-3+ skills	10	The skills identified are well defined, high level skills which includes a complete description and identification to importance of growers' project.	Skills lack either a well-defined description or relevance to project, or are only moderately well described and related to project.	Skills lack significantly in both description and relevance to success or are at a very low level for this project.
Project & Post Fair Project Journal	JR/INT/SR	Project Journal 10 Post Fair Journal 3	Grower shows activities which are well defined and consistent with market values. Complete descriptions are given. Minimum of 1 entry PER WEEK. ½ pt. deduction for missing entries. Post Fair: Same requirements as Project Journal	Grower shows activities which are not well defined or are inconsistent with market values. Descriptions are given. ½ pt. deduction for missing weekly entries Post Fair: Same requirements as Project Journal	Grower shows a lack of activities or activities are inconsistent with market values. No descriptions are given. Post Fair: Same requirements as Project Journal
Impact Statement	JR/INT/SR	2	Statement supports the knowledge, skills and competencies necessary for success in the project.	Statement support skills necessary for success in the project.	Statement missing or lack supporting evidence.

Sugar Beet Presentation Fair

<u>Item</u>	<u>JR/INT/SR</u>	<u>Possible Pts</u>	<u>Full Points</u>	<u>Middle Points</u>	<u>Low/No Points</u>
Presentation of Project	JR/INT/ SR	10	Oral Presentation of candidates KNOWLEDGE OF PROJECT delivered with confidence. Spoke loud and clear. Made good eye contact with judges. Time requirements: JR 2 minute minimum, INT 4 Minute minimum, SR 6 minute minimum	Hesitant on Oral Presentation of Growers KNOWLEDGE OF PROJECT. Soft spoken with minimal eye contact with group. Time requirements: Deduct 1 pt for every 30 seconds from minimum time.	Presentation not given about PROJECT. Judge was unable to hear or understand presentation. No eye contact with judge was made. Time requirements: Deduct 1 pt for every 30 seconds from minimum time
Research Topic	JR/INT/ SR	10	JR: Has Topic Listed with General Research Information Presented. Pictures and Illustrations used. INT/SR: Has Topic Listed with In depth research. Ability to educate the audience with the information presented. Pictures and Illustrations used.	Topic not properly listed. Research information is vague with limited information.	No Research was done. Nothing is presented.
Knowledge of Sugar Beet Project	JR/INT/ SR	10	JR: Knowledge of seed variety, herbicides used and group preparation INT/SR: Knowledge of planting dates, seed variety, herbicides used and rates, and irrigation schedules	JR: Limited knowledge of seed variety, herbicides used and ground preparation INT/SR: Knowledge of seed variety, herbicides used and irrigation schedule - with no specific rates and dates given.	JR: No information INT/SR: Incomplete information
Presentation Board Completeness	JR/INT/ SR	10	Has all required elements: Left Wing-All about Me with pictures, personality, etc. Right Wing - All about Sugar Beet Crop- shows personal involvement, knowledge of crop and aspects of growing their project. Center-Research Topic. Shows creativity and neatness.	Does not have all required elements or elements are not in proper placement.	No Presentation Board is Presented. (This will disqualify participant from Sugar Beet Project and Contract for future years.)
Appearance & Confidence	JR/INT SR	4	Dressed in Clean, Professional looking clothing. Demonstrates and communicates confidence and knowledge of project and research.	Dressed too Casually. Demonstrates and communicates lack of confidence or knowledge of project and research.	Inappropriate clothing. Does not communicate knowledge and confidence of project and research.

Overall Behavior, Respect & Consideration to Others

JR/INT/ SR	6	Respectful and Courteous to other presenters and audience as well as other's property during the Fair.		Disrespectful or disruptive to other presenters or audience OR Disrespectful to others property during the Fair
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