



Idaho Milk Quality Products Handbook

Purpose

To enhance learning activities relative to the quality production, processing, distribution, promotion, marketing, and consumption of dairy food products. To assist students to develop a sound perspective for utilizing decision-making.

Objectives

- Be able to identify cheese varieties.
- Be able to identify and evaluate the flavor quality of milk.
- Be able to distinguish between dairy and non-dairy products (imitation and substitutes).
- Be able to differentiate fat content among dairy food products.
- Be able to complete a written test on milk production and marketing.

General Rules

1. Four participants will constitute an official team. The top three individual scores will be used in the team score tabulation.
2. Participants will be allowed a maximum of 15 minutes to score milk flavor, 15 minutes for fat content component, 15 minutes for cheese identification, 15 minutes for dairy and non-dairy products identification, and 15 minutes for the written exam.
3. All milk flavor samples are to be taken from pasteurized bulk milk for table use. Milk should be maintained at a consistent temperature throughout the event.
4. Paper cups for sampling purposes will be provided to the participants, but participants will be permitted to bring and use their own sampling containers.
5. No duplications will be present in the event for milk fat content identification and cheese identification. Duplicates will be allowed in milk defect and dairy vs non-dairy.
6. Event checkers will be used to verify official placing and scoring. Event checkers will remain at the event until their team is competing.
7. The first place team in the Milk Quality Products Event will represent Idaho in the National Milk Quality Products CDE.
8. The CDE superintendent will prepare duplicate classes to facilitate a smoother running event and ensure the freshness of the product being used.
9. A control sample of no defect milk will be made available for participants in milk sampling for calibration purposes prior to sampling milk.
10. Allergy information: food products used in this event may contain or come in contact with potential allergens. Advisors must submit a special needs request form for participants with any allergies with certification at least a week prior to the event. The event committee will make all reasonable efforts to accommodate with food allergies.

Format and Scoring

1. Seven samples of milk to be judged on flavor (6 points each) and intensity (6 points each) subtracting 1 point per number off. Two identical sets will be used in the state CDE. Duplicates will be allowed.
2. Ten samples of cheese for identification worth 2 points each.
3. NO DUPLICATES will be allowed across samples in the milk fat section.
4. Students will identify ten dairy and non-dairy (natural/imitation) products and/or ingredient labels. Duplicate samples WILL BE ALLOWED.
5. Only whole points should be used when scoring milk flavor and intensity. Duplicate samples WILL BE ALLOWED. Check only the most serious defect in a sample even if more than one flavor or intensity is detected. If no defect is noted, check "No defect."
6. 5 samples will be provided to assess milk fat content worth 3 points each. There will be no milk fat content duplicate samples.
7. The written exam shall consist of 25 multiple choice questions worth 2 points per question. These questions will be drawn from the three previous years' National Milk Products CDE Written Tests, excluding the last National exam due to date of release.
8. Scoring - points will be deducted for incorrect answers, therefore high score wins.

Tie Breakers

Tie breakers are to be established for teams and individuals: use milk samples as first tie breaker, and the second tie breaker is the best test score

Awards

Awards are presented to teams as well as individuals based upon their rankings. The top 10 teams and individuals will be recognized. Individuals from 1st through 5th place will receive medals. Teams from 1st through 5th place will receive plaques.

Acknowledgements

The United Dairymen of Idaho are sponsors of the Food Products Career Development Event through the Idaho FFA Foundation.

List of Potential Samples for Natural Vs Imitation (Duplicates allowed)

1	Cheese slices (American)	Vs.	Artificial
2	Milk	Vs.	Rice, Almond, Oat, Soy Milk etc.
3	Butter	Vs.	Margarine
4	Sour Cream	Vs.	Artificial
5	Half and Half	Vs.	Non-Dairy Creamer
6	Powdered Milk	Vs.	Dry Non-Dairy Creamer
7	Whipped Cream	Vs.	Whipped Non-Dairy Topping

List of Potential Samples for Milk Fat Content (No duplicates allowed)

The following components will be used in the milk fat content section. The student answers will be bubbled on the Dairy/Non Dairy Fat Content section of the scan sheet for the state event. No duplicate samples will be present.

1. Skim milk (nonfat): 0.05%-0.5%
2. Reduced fat milk: 1%-2%
3. Whole milk: 3.25%-3.5%
4. Half and half: 10.5%
5. Whipping cream: 30%

Milk Defects Scoring Guide – Refer to current MILK DEFECTS SCORECARD (Duplicates allowed)

Scores may range from 1 to 10. On a quality basis:

- | | |
|-----|-------------------------|
| 10 | Excellent (no defect) |
| 8-9 | Good |
| 5-7 | Fair |
| 2-4 | Poor |
| 1 | Unacceptable/Un-salable |

Example: Milk Flavors

Scores (suggested scores are given for three intensities of flavor- all numbers within the range may be used.)

DEFECTS	Slight	Definite	Pronounced
High Acid	3	2	1
Feed	9	8	5
Flat/Watery	9	8	7
Garlic/Onion	5	3	1
Malty	5	3	1
Oxidized	6	4	1
Salty	8	6	4
Foreign	5	3	1

Example: Milk Defect positive scoring example

Sample:

The contest milk is a Garlic and officially scored a 5.

The contestant calls it Garlic and gives it a score of 6.

The contestant would receive 6 points (defect) for calling it Garlic and 5 points for intensity ($6-1=5$)

Total score would be $6 + 5 = 11$

The contest milk is a Garlic and officially scored a 5.

The contestant calls it Salty and gives it a score of 8.

The contestant would receive 0 points (defect) for calling it Salty and 3 points for intensity subtracting 1 pts per intensity number ($6-3=3$)

The score would be $0 + 3 = 3$

If a student puts a 10 on their score for no defect, they will get all the 6 points for the answer plus the 6 points if they called it no defect.

**** answer is No Defect with a score of 10

**** kids calls it No Defect and they score it 10

****10 (official score) student scored it a 10 (their score) equals 6 points (they get all 6 points for being correct) plus the 6 points for getting the correct flavor, therefore they get 12 points on that sample (12 points possible for each milk)

Procedures for Preparing Samples of the Common Off-Flavors of Fluid Milk

The Dairy Food CDE superintendent may or may not use the following procedures to prepare samples. These are simply suggestions of potential ways to prepare samples for practice and CDE's.

High Acid	Add 30 – 60 mls buttermilk to 1-gallon whole milk. Should prepare 24-48 hr ahead.
Bitter	<p>Prepare a 2% aqueous solution of quinine sulfate. Warning: Some individuals may be allergic to quinine compounds. Slight-Add 1.0 ml quinine solution/600 ml milk. Definite-Add 2.0 ml quinine solution/600 ml milk. ~ 0.2 g caffeic acid to one gallon.</p> <p>Quinine is available through chemistry catalogs and can be ordered online at http://www.flinnsci.com/.</p>
Feed (Alfalfa) (Molasses)	<p>Add approx. 2-3 g of alfalfa hay to about 100 ml of fresh past./homog. milk and hold for approx. 20 min. Then strain the milk through cheese cloth (in a funnel) into another container. It is highly advisable to pasteurize this "stock solution" of milk by heat treating it at 70° C (158° F) for 10 min. Next, for each 575 ml of milk: (a) Add - 20 ml of this "alfalfa" milk for -slight. (b) Add - 30-35 ml of this "alfalfa" milk for - definite. Note: Other roughages may be used to prepare feed off-flavors in a similar manner. Pasteurize any prepared "stock solutions" of feeds in milk.</p> <p>Or Add 15 ml of molasses with 1 Quart of milk for strong result.</p>
Flat	Add approx. 75-100 ml of distilled or good quality tap water to 525-500 ml of fresh past./homog. milk (slight intensity). Add 300 – 600 ml of water to 1 gallon milk.
Foreign	Add 5 drops of Original Listerine per quart of milk and allow to sit overnight.
Garlic/onion	3 - 6 drops onion juice or garlic powder
Malty	Add 15 g Grape Nuts or Grape Nuts Flakes breakfast cereal to 100 ml milk and hold for 20-30 minutes. Strain through cheese cloth, then add 13 ml of the "stock" to 590 ml past./homog. milk (definite intensity)
Oxidized (metal- induced)	Prepare 100 ml of 1% CuSO ₄ .5H ₂ O solution and keep refrigerated. Add the following amounts of "stock copper" solution to 600 ml. past./homog. milk: Slight-0.75 ml 1% CuSo ₄ ; Definite-1.2 ml 1% CuSo ₄ ; Pronounced-1.8 ml 1% CuSo ₄ ; Note: Highly advisable to prepare 24-48 hr ahead of use. Alternatively, if pasteurized creamline (unhomogenized) milk is available, exposure of this milk to sunlight will produced the oxidized off-flavor without addition of copper ions.
Oxidized (light- induced)	Add 600 ml past./homog. milk to a clear glass or plastic milk container. Expose milk to bright, direct sunlight for the following exposure times: Slight-8 to 9 minutes; Definite-10-11 minutes; Pronounced-12 to 15 minutes; Note: Plan to use such prepared samples for only 1 or 2 days; the generic oxidized (metal-induced) off-flavor may develop within 36-48 hours after light exposure.
Salty	Add 1-4 grams of salt to 1 gallon of milk.

DAIRY FOOD PRODUCTS CAREER DEVELOPMENT EVENT SCORECARDS

For Idaho State Career Development Events, the included scantron cards will be used unless otherwise indicated. Additional cards provided are included for study purposes and use at local and district events.

MILK DEFECTS SCORECARD

Participant: _____

Instructions: Place the letter of the defect for each sample in the column labeled MILK DEFECT and the score for each sample next to it in the column labeled PARTICIPANT SCORE. This card is for reference only at the state event. See Scantron sheet for state scorecard directions. **Duplicates are allowed. DO NOT write in the area labeled GRADE DIFFERENCE.**

	Milk Sample	Milk Defect (Letter from left)	Participant Score (1-10)	Grade Difference (DO NOT write in this column)
A.	Feed			
B.	Flat-Watery			
C.	Garlic or onion	1.		
D.	High acid	2.		
E.	Malty	3.		
F.	Metallic/Oxidized	4.		
G.	Salty	5.		
H.	Foreign	6.		
I.	No defect	7.		
Totals				
Total Score (Defects + Difference)				
(No defect 10 points. Range 1 - 10. Milk Defects valued at 6 pts each, Intensity 6 pts subtract 1pt for each number off)				

MILK DEFECTS SCORECARD

Participant: _____

Instructions: Place the letter of the defect for each sample in the column labeled MILK DEFECT and the score for each sample next to it in the column labeled PARTICIPANT SCORE. This card is for reference only at the state event. See Scantron sheet for state scorecard directions. **Duplicates are allowed. DO NOT write in the area labeled GRADE DIFFERENCE.**

	Milk Sample	Milk Defect (Letter from left)	Participant Score (1-10)	Grade Difference (DO NOT write in this column)
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D.	High acid	2.		
E.	Malty	3.		
F.	Metallic/Oxidized	4.		
G.	Salty	5.		
H.	Foreign	6.		
I.	No defect	7.		
Totals				
Total Score (Defects + Difference)				
(No defect 10 points. Range 1 - 10. Milk Defects valued at 6 pts each, Intensity 6pts subtract 1pt for each number off)				

CHEESE IDENTIFICATION SCORECARD

Participant: _____

Instructions: Place the letter of the CHEESE NAME for each sample in the blank for the appropriate sample number. This scorecard is for reference only at the state event. Cheese ID will be entered into the Identification and Characteristics of Cheeses section on the scan sheet.

Cheese Names	Sample Number	Participant Identification
A. Blue		
B. Brie	1.	
C. Cheddar (mild)	2.	
D. Cheddar (sharp)	3.	
E. Colby	4.	
F. Cream	5.	
G. Gouda	6.	
H. Havarti	7.	
I. Monterey (Jack)	8.	
J. Mozzarella	9.	
K. Munster	10.	
L. Processed American	(Incorrect identification 2 points. Perfect score is 20.)	
M. Provolone	Score on Cheese ID	
N. Swiss		

CHEESE IDENTIFICATION SCORECARD

Participant: _____

Instructions: Place the letter of the CHEESE NAME for each sample in the blank for the appropriate sample number. This scorecard is for reference only at the state event. Cheese ID will be entered into the Identification and Characteristics of Cheeses section on the scan sheet.

Cheese Names	Sample Number	Participant Identification
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E. Colby	4.	
F. Cream	5.	
G. Gouda	6.	
H. Havarti	7.	
I. Monterey (Jack)	8.	
J. Mozzarella	9.	
K. Munster	10.	
L. Processed American	(Incorrect identification 2 points. Perfect score is 20.)	
M. Provolone	Score on Cheese ID	
N. Swiss		

Natural VS. Imitation PRODUCT SCORECARD

Participant No. _____

Instructions: Circle Natural or Imitation for each sample 1-10. This scorecard is for reference only at the state event. Student answers will be bubbled into the Natural/Imitation section on the scan sheet.

Duplicate samples may be present.

Sample Number	Sample Classification		Score (DO NOT write in this column)
	Natural	Imitation	
1.	Natural	Imitation	
2.	Natural	Imitation	
3.	Natural	Imitation	
4.	Natural	Imitation	
5.	Natural	Imitation	
6.	Natural	Imitation	
7.	Natural	Imitation	
8.	Natural	Imitation	
9.	Natural	Imitation	
10.	Natural	Imitation	
Total Participant Score			
Incorrect identification 2 points each. Perfect score is 20.			

Natural VS. Imitation PRODUCT SCORECARD

Participant No. _____

Instructions: Circle Natural or Imitation for each sample 1-10. This scorecard is for reference only at the state event. Student answers will be bubbled into the Natural/Imitation section on the scan sheet.

Duplicate samples may be present.

Sample Number	Sample Classification		Score (DO NOT write in this column)
	Natural	Imitation	
1.	Natural	Imitation	
2.	Natural	Imitation	
3.	Natural	Imitation	
4.	Natural	Imitation	
5.	Natural	Imitation	
6.	Natural	Imitation	
7.	Natural	Imitation	
8.	Natural	Imitation	
9.	Natural	Imitation	
10.	Natural	Imitation	
Total Participant Score			
Incorrect identification 2 points each. Perfect score is 20.			

WRITTEN EXAM SCORECARD

This scorecard is for reference only for the state event. Student answers will be bubbled into Written Exam A on the Scan sheet.

IDAHO STATE FFA CAREER DEVELOPMENT EVENT DAIRY FOOD PRODUCTS WRITTEN EXAM

PARTICIPANT NUMBER _____

PARTICIPANT NAME _____

CLASS NUMBER _____

PLACE AN (X) THROUGH THE CORRECT ANSWER!

QUESTION NUMBER					
1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E
21	A	B	C	D	E
22	A	B	C	D	E
23	A	B	C	D	E
24	A	B	C	D	E
25	A	B	C	D	E

Two points will be deducted from the participant score for each incorrect response to the test questions.

TOTAL SCORE _____

MILK FAT COMPONENT SCORECARD

Participant: _____ -

Instructions: Place the NUMBER of the MILK FAT PERCENTAGE for each sample in the blank for the appropriate sample number. Numbers represent the answers found on the scan sheet. This scorecard is for reference only at the state event. Students will bubble their fat content range answers under the Dairy/Non Dairy Fat Content section on the scan sheet. **No duplicate samples will be presented.**

Milk Fat Component	Sample Number	Participant Identification
1. Non-fat (skim) Milk: 0.05%-0.5%	1.	
2. Reduced Fat Milk: 1%-2%	2.	
3. Whole Milk: 3.25%-3.5%	3.	
4. Half and Half: 10.5%	4.	
5. Whipping Cream: 30%	5.	
	Score on Milk Fat	
(Incorrect identification 3 points each. Perfect score is 15.)		



MILK FAT COMPONENT SCORECARD

Participant: __

Instructions: Place the NUMBER of the MILK FAT PERCENTAGE for each sample in the blank for the appropriate sample number. Numbers represent the answers found on the scan sheet. This scorecard is for reference only at the state event. Students will bubble their fat content range answers under the Dairy/Non Dairy Fat Content section on the scan sheet. **No duplicate samples will be presented.**

Milk Fat Component	Sample Number	Participant Identification
1. Non-fat (skim) Milk: 0.05%-0.5%	1.	
2. Reduced Fat Milk: 1%-2%	2.	
3. Whole Milk: 3.25%-3.5%	3.	
4. Half and Half: 10.5%	4.	
5. Whipping Cream: 30%	5.	
	Score on Milk Fat	
(Incorrect identification 3 points each. Perfect score is 15.)		

**Milk Quality and Products
Form #479-6**

Incorrect Marks Correct Mark
 

Team Name _____
 This sheet is for demonstration and practice only. You must use a real scan sheet for actual competition.

Team #

0	1	2	3
4	5	6	7
8	9	0	

Code

0	1
2	3
4	5
6	7
8	9

Last Name	First Name
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z

1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E

31	A	B	C	D	E
32	A	B	C	D	E
33	A	B	C	D	E
34	A	B	C	D	E

**EXAM
25**

Written Exam A / Milk Production

10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E
21	A	B	C	D	E
22	A	B	C	D	E
23	A	B	C	D	E
24	A	B	C	D	E
25	A	B	C	D	E
26	A	B	C	D	E
27	A	B	C	D	E
28	A	B	C	D	E
29	A	B	C	D	E
30	A	B	C	D	E

Written Exam B / Milk Marketing

40	A	B	C	D	E
41	A	B	C	D	E
42	A	B	C	D	E
43	A	B	C	D	E
44	A	B	C	D	E
45	A	B	C	D	E
46	A	B	C	D	E
47	A	B	C	D	E
48	A	B	C	D	E
49	A	B	C	D	E
50	A	B	C	D	E
51	A	B	C	D	E
52	A	B	C	D	E
53	A	B	C	D	E
54	A	B	C	D	E
55	A	B	C	D	E
56	A	B	C	D	E
57	A	B	C	D	E
58	A	B	C	D	E
59	A	B	C	D	E
60	A	B	C	D	E

Problem Solving

1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E

Dairy / Non-Dairy Identification and Fat Content

I. Identification	Sample Number									
	1	2	3	4	5	6	7	8	9	10
1 Butter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Flavored Milk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Half and Half	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Heavy Cream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Light Whipped Cream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Milk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Sour Cream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Margarine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Non Dairy Creamer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Non Dairy Flavored Beverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 Non Dairy Milk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 Non Dairy Sour Cream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 Non Dairy Whipped Topping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
II. Fat Content	1	2	3	4	5	6	7	8	9	10
1 0.05% - 0.5%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 1% - 2%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 3.25% - 3.5%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 10.5%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 18%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 30%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 36%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 80%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Non Dairy Variable Fat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**MILK FAT
5**

Identification and Characteristics of Cheeses										
I. Identification	Sample Number									
	1	2	3	4	5	6	7	8	9	10
1 Blue/Bleu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Brie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Cheddar Mild	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Cheddar Sharp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Cream/Neufchatel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Edam/Gouda	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Monterey Jack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Mozzarella	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Processed American	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Provolone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 Swiss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 Colby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13 Feta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 Havarti	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 Gruyere	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 Muenster	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17 Parmesan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18 Queso Fresco	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19 Ricotta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20 Romano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
II. Characteristics	1	2	3	4	5	6	7	8	9	10
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CHEESE ID
10

CMT					
Score	Sample Number				
	1	2	3	4	5
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mark one answer in each column!

Natural / Imitation										
Food Identification	Sample Number									
	1	2	3	4	5	6	7	8	9	10
1 Natural	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Imitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mark one answer in each column!

Natural/Imitation
10

Milk Flavor										
I. Defect	Sample Number									
	1	2	3	4	5	6	7	8	9	10
1 Acid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Bitter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Feed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Flat-watery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Foreign	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Garlic or onion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Malty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 No defect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 Oxidized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Rancid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 Salty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
II. Score	1	2	3	4	5	6	7	8	9	10
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MILK DEFECT
7

MILK DEFECT SEVERITY
7