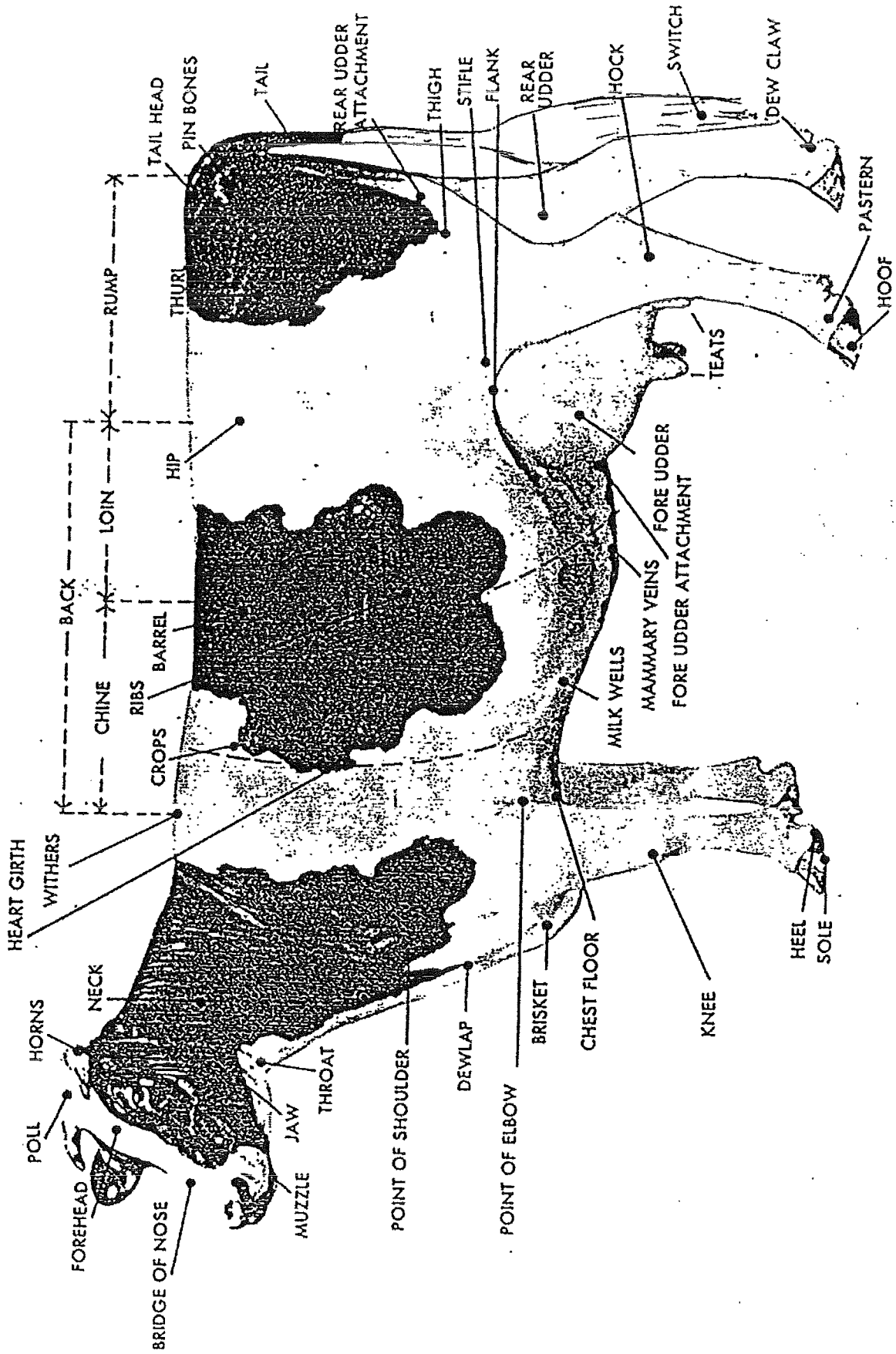
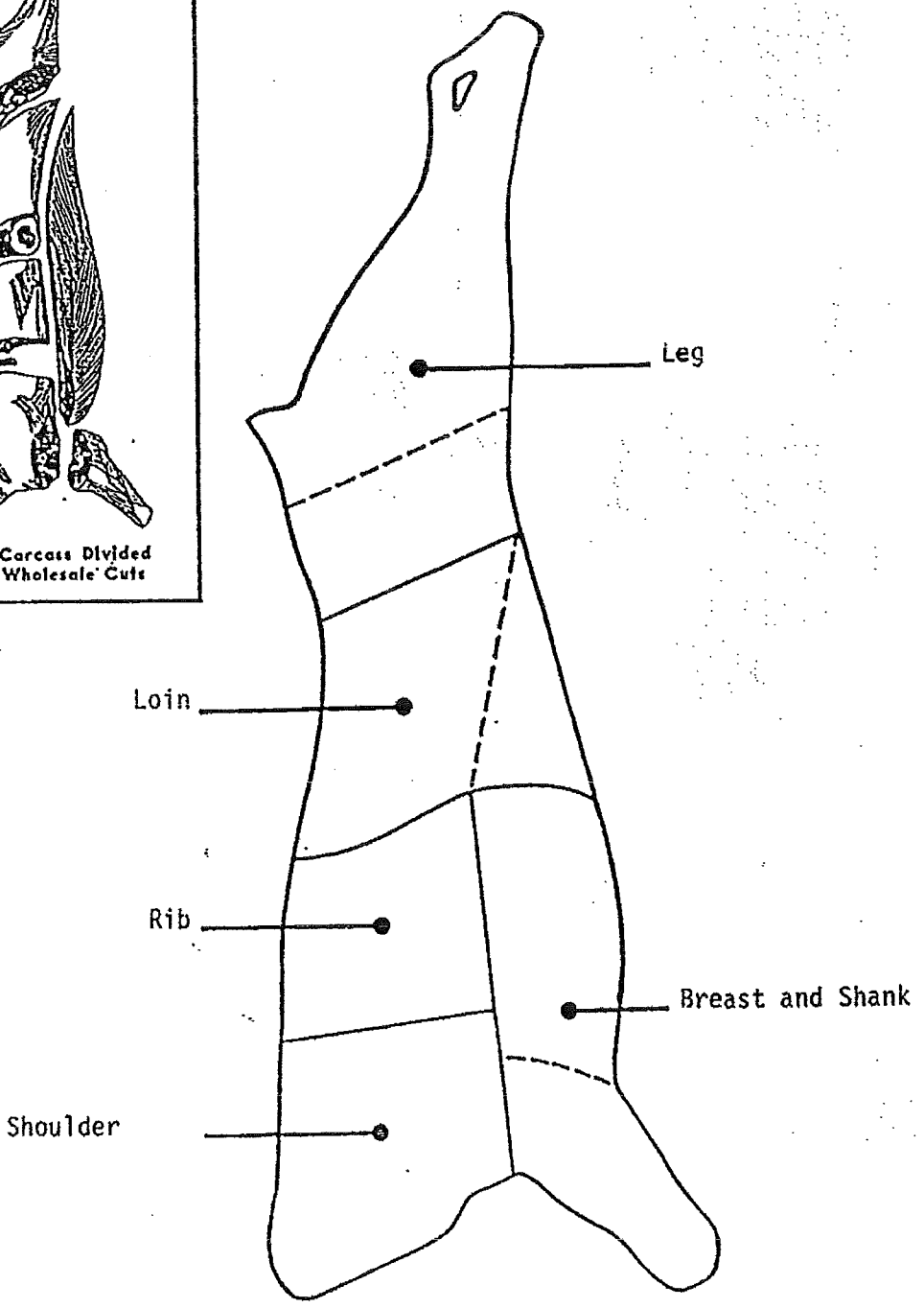
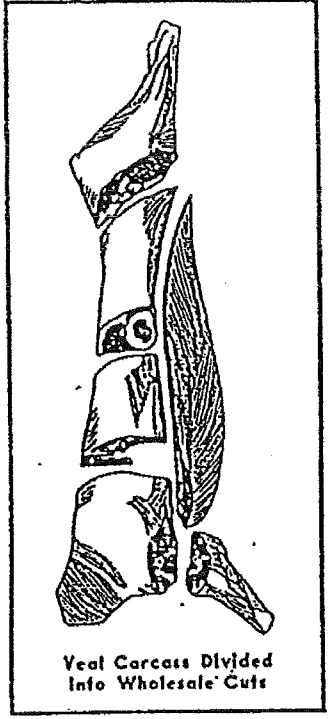


DAIRY CATTLE



VEAL CHART

WHOLESALE CUTS



DAIRY CATTLE STUDY GUIDE
Livestock Expo
Madera County 4-H

Level I	Level II	Level III	Level IV
Entry Form (replacement)	Entry Form (registered)	Wholesale cuts (5)	
Parts (15)	Parts (20)	Parts (30) Udder (8)	Digestive System (9)
T/F Test (25)	T/F Test (25)	Quiz/Disease & Parasites (25 match, 10 multiple)	Quiz/Terms, Nutrition & Diseases
Feed ID (5)	Feed ID (10)	Feed ID (15)	Feed ID
Equipment ID (15)	Equipment ID (20)	Breed ID (5)	Judging
Judging (1 class)	Judging (1 class)	Judging (1 class)	Oral Reasons
Skills and Showmanship	Skills and Showmanship	Management and Clipping Skills	Management and Clipping Skills

SKILLS

- Level I and II - May include tie and untie; into and out of blocking chute; use of neck rope and other basic project skills.
 - Member should be knowledgeable about basic fitting of dairy cattle including where to clip and how to work hair.
 - Questions may include where and when to use beef/sheep heads in clipping for show.
- Level III & IV - May include basic management skills - using balling gun, giving injections and reading medication labels.
 - Hands on clipping will be required in both levels.
 - Member should know how to adjust and lubricate both types of clippers (beef/sheep heads).
 - Some advanced fitting skills may be requested (e.g. tails)

SHOWMANSHIP

- Level I and II - Basic skills - leading, posing, etc. You are to bring one dairy heifer for every three members in your club. You will not be allowed to use other members animals unless prior arrangements have been made.

ADDITIONAL STUDY MATERIAL

- Level III & IV - Compartments of ruminant stomach - rumen, reticulum, omasum, abomasum (function of each).
 - Common Diseases and Parasites - Brucellosis, leptospirosis, pneumonia, shipping fever, blackleg, white muscle, mastitis, IBR.
 - Basic nutrition - Vitamin A, B complex, C, D, E, K; Minerals - calcium, phosphorus.
 - General management - normal temperature, common injection sites (IM, SubQ, IV), symptoms of common parasites.

REFERENCES: 4-H Dairy Project Manual (4-H 2009) (pages 8, 9, 19-22)

There are feed ID kits available at the 4-H office for you to check out and study.

THE IMPORTANT THING IS TO HAVE FUN AND BE KIND TO YOUR COWS.

DAIRY CATTLE TERMS - LEVEL I & II
LIVESTOCK EXPO - Madera County 4-H

1. Bloat - Excessive gas build up in the rumen (stomach).
2. Brand - Permanent marking on skin caused by scar tissue.
3. Bull - Male of cattle.
4. Calf - Young animal of cattle species, under one year of age.
5. Cow - Mature female of cattle.
6. Cull - Animal taken out of herd because below herd standard.
7. Dam - Mother of calf.
8. Dehorn - Removing of horns.
9. Dry cow - Cow not milking.
10. Fill - Amount of water and feed in a animal.
11. Heifer - Female of cattle under 3 years of age and has not produced a calf.
12. Nurse cow - Cow nursing calves other than its own.
13. Off feed - Cattle that stop eating or eat very little.
14. Ration - Total feed given during 24 hours.
15. Scours - Diarrhea or loose running manure.
16. Sire - Father of a calf.
17. Steer - Male cattle castrated at an early age.
18. Polled - Cattle born without horns.
19. Castrate - To remove the testes of male cattle.
20. Weaner - Calf just taken away from its mother.
21. Registered - Purebred animals whose pedigree is recorded with a breed association registry.
22. Gestation - Period cow is with calf (282 days).
23. Conformation - Refers to shape and design of body.
24. Barren - Not able to produce a calf.
25. Concentrate - Feed stuffs (such as grains) that are low in fiber and high in digestible nutrients.
26. Roughage - Feeds high in fiber (hays, silage, hulls).

DAIRY CATTLE TERMS - LEVEL III & IV (May include Level I & II terms)
LIVESTOCK EXPO - Madera County 4-H

1. Bred - Animal that is pregnant.
2. Carcass - Dressed body of a meat animal, with the insides (offal) removed.
3. Cod - Scrotum of steer that contains fat.
4. Colostrum - Thick yellow milk (first milk) produced by a cow after calving.
5. Cow hocked - Hocks turn in toward each other when standing or walking.
6. Crossbreeding - Mating of purebred cattle but of different breeds.
7. Cud - Regurgitated feed or bolus from stomach.
8. Dressing % - $\frac{\text{Dressed weight}}{\text{Live weight}} \times 100 = \text{Dressing \%}$
9. Dual purpose - Cattle breeds used for beef and milk production.
10. Estrus - Period of heat, able to conceive (18 hours).
11. Estrous cycle - Period of time between heats (estrus). Usually 17-21 days.
12. Lactation - Period of producing milk.
13. Pedigree - Written statement giving the record of an animal's ancestry (family tree).
14. Post legged - Too straight in hind legs.
15. Replacement - Animal selected to keep in a breeding herd.

DAIRY CATTLE EQUIPMENT/SUPPLY I.D.
LIVESTOCK EXPO - Madera County 4-H

flexible ear tag	ear tag applicator	hog rings
metal curry comb	scotch comb	hog ringer
mane/tail comb	trimming scissors	tail ties
wooden show stick	aluminum show stick	soft brush
fiberglass show stick	beef show halter	spray bottle
vinyl massage comb	dairy show halter	spray adhesive
washer massage comb	rope halter	mineral oil
rice root brush	nylon rope halter	alcohol
neck rope	Johnson halter	sweat collar
Electric clipmaster clippers	Electric shearmaster clippers	wire hoof brush
top clipper blade	bottom clipper blade	nose lead (bull)
hair dressing	quick shed'n blade	eye patch
tattoo pliers	tattoo ink	tattoo number
cattle magnet	elastrator	scalpel
calf drencher	animal marker chalk	emasculator
metal balling gun	plastic balling gun	Burdizzo
inseminating sleeve	electric dehommer	horn weights
A.I. pipette	disposable syringe	calf snare
manual dehommer	disposable needle	hoof nipper
automatic syringe	obstetrical chain	hoof/horn rasp
electric branding iron	obstetrical chain handle	branding iron
paint branding iron	emery cloth	feed pan
Circuiteer hot air blower		

**DAIRY CATTLE SKILLS AND SHOWMANSHIP - LEVEL I
LIVESTOCK EXPO - Madera County 4-H**

SKILLS DEMONSTRATION	Possible Points	Score	Comments
Safely Enter Stall & Untie	5		
Proper Tie (Quick release knot)	5		
Trimming Stand Use (In and Out Safely)	10		
Fitting Question (1)	5		
TOTAL	25		
SHOWMANSHIP - Leading Cattle			
Entering & Leaving Ring	5		
Walk and Stop	5		
Turn	5		
Set Up/Posing	10		
TOTAL	25		

**DAIRY CATTLE SKILLS AND SHOWMANSHIP - LEVEL II
LIVESTOCK EXPO - Madera County 4-H**

SKILLS DEMONSTRATION	Possible Points	Score	Comments
Safely Enter Stall & Untie	5		
Proper Tie (Quick release knot)	5		
Trimming Stand Use (In and Out Safely)	10		
Fitting Questions (2)	10		
TOTAL	30		
SHOWMANSHIP - Lead at Halter			
Entering & Leaving Ring	5		
Walk and Stop	5		
Turn	5		
Set Up/Posing	10		
Back Up & Use of Hands	5		
TOTAL	30		

DAIRY CATTLE SKILLS - LEVEL III
LIVESTOCK EXPO - Madera County 4-H

SKILLS DEMONSTRATION	Possible Points	Score	Comments
Safely restrain animal	5		
Demonstrate use of balling gun	5		
Fill Syringe with 5 cc. Penicillin	5		
Where will injection be given	5		
Read the Label: Give Expiration Date	5		
Read the Label: Give Withdrawal Time	5		
Show indications that this heifer is Brucellosis vaccinated: Orange ear tag	5		
Permanent tattoo	5		
Explain what the letters and numbers of the tattoo mean	10		
TOTAL	50		

DAIRY CATTLE SKILLS - LEVEL IV
LIVESTOCK EXPO - Madera County 4-H

SKILLS DEMONSTRATION	Possible Points	Score	Comments
Attach and adjust clipper blades (Beef heads only)	10		
Explain care and maintenance of clippers:			
Cleaning	5		
Lubrication	5		
Clip one side of dairy heifer:			
Tail	5		
Neck	5		
Head	5		
Finer Points	5		
Explain and demonstrate final grooming for show:			
Shedding blade	2		
Tail Switch	2		
Use of Spray Oil	2		
Use of cosmetics	2		
How to obtain proper fill	2		
TOTAL	50		