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UNIVERSITY OF WISCONSIN-MADISON

IOWA STATE UNIVERSITY
Extension and Outreach

ISU DAIRY GOAT WEBINAR SERIES 2024
MARCH 20, 2024
 Raising Buck Kids: Back to the Basics
 Carolyn Ihde
 Small Ruminant Outreach Specialist

Colostrum Keys

First feeding before **6** hours of birth

10% of body weight

4 feedings in **24** hours



COLOSTRUM MANAGEMENT FOR THE DAIRY GOAT KID
 JENNIFER BENTLEY, DAIRY FIELD SPECIALIST, IOWA STATE UNIVERSITY
 EXTENSION AND OUTREACH



The Four Phases of Feeding the Dairy Goat Kid
 Learn the significance of each phase and how they can influence the health, development, and quality of the kids you raise. Comprehend management strategies that can positively affect your bottom line whe...
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NC STATE
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Nutrition of Newborn Kids: Colostrum and Bottle-Feeding | NC State Extension...
 Colostrum is the first thick yellowish milk produced by the doe after giving birth. Colostrum contains...
ncsu.edu

Sanitation of Calf and Goat Feeding Equipment

LAST UPDATED 16JAN24

PRACTICAL GUIDE

RINSE	RINSE BOTTLES, NIPPLES, BUCKETS, FEEDERS, MIXING EQUIPMENT WITH COOL OR LUKEWARM WATER.
WASH	WASH WITH HOT WATER AND A CHLORINATED ALKALINE DETERGENT (PH = 11 TO 12). PHYSICALLY SCRUB TO BREAK DOWN BIOFILMS. NOTE SOME DETERGENTS ARE LABELED FOR USE WITH 160°F WATER, WHICH IS TOO HOT FOR COMFORTABLE USE BY MOST PEOPLE. CHOOSE A DETERGENT LABELED FOR 140°F AND WHICH WILL WORK WITH THE HARDNESS OF YOUR WATER.
RINSE	RINSE WITH LUKEWARM WATER.
RINSE	RINSE WITH AN ACID SOLUTION (PH = 2 TO 3) AND WARM WATER (AROUND 100°F) TO REMOVE MINERAL BUILDUPS.
RINSE	RINSE AGAIN WITH LUKEWARM WATER.
SANITIZE	JUST BEFORE USE, SANITIZE FEEDING EQUIPMENT. THE SANITIZER SHOULD NOT BE APPLIED MORE THAN 1 TO 2 HOURS BEFORE THE FEEDING EQUIPMENT WILL BE USED.



ADAPTED FROM: Van Os, J. (2021, February, 8). *Two heads are better than one: A starter guide to pairing dairy calves.* *HYGIENE PRACTICES.* <https://animalwelfare.cals.wisc.edu/wp-content/uploads/sites/243/2021/02/03-Hygiene-practices.pdf>

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For bottle-feeding colostrum, proceeds as follows:

- 1) Weigh the newborn kid
- 2) Convert its weight into ounces. Calculate 10% of total body weight in ounces, divide that number by four feedings, and feed that amount of colostrum over a 24-hour period.

Example for a 5 lb kid

- 5 lb kid x 16 oz/lb = 80 oz
- 80 oz x 10% = 8.0 oz per day
- 8.0 oz into 4 feedings = 2.0 oz per feeding
- Us a baby bottle and wash it thoroughly between feedings.

luginbuhl, J.M. (2022, FEB. 2). Nutrition of newborn kids: Colostrum and bottle feeding. <https://content.ces.ncsu.edu/nutrition-of-newborn-kids>

Feeding Milk

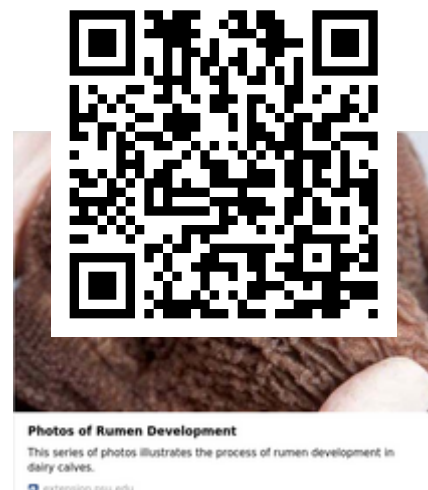


PERDUE, M. & SCHOENIANS, S. (2023, JAN, 26). BOTTLE FEEDING KIDS & LAMBS. UNIVERSITY OF MARYLAND EXTENSION.

Rumen Function



CHRISTENSEN, K. (2020). THE BIOLOGY OF THE GOAT: DIGESTIVE SYSTEM. [HTTPS://GOATBIOLOGY.COM/ANIMATIONS/DIGESTION.HTML](https://goatbiology.com/animations/digestion.html)



Photos of Rumen Development

This series of photos illustrates the process of rumen development in dairy calves.
extension.psu.edu

Enterotoxemia



Vaccinating Goats Against Enterotoxemia and Tetanus: Is it...

It is generally advised that all goats be vaccinated against overeating disease (enterotoxemia) and...



Enterotoxemia (Overeating Disease) of Sheep and Goats - 8.018

Enterotoxemia is a frequently severe disease of sheep and goats of all ages. It is caused by tw...

Extension

PEZZANITE, L., NEARY, M., HUTCHENS, T. & SCHÄRKO, P. (2009). COMMON DISEASES AND HEALTH PROBLEMS IN SHEEP AND GOATS. PURDUE EXTENSION. [HTTPS://WWW.EXTENSION.PURDUE.EDU/EXTMEDIA/AS/AS-595-COMMONDISEASES.PDF](https://www.extension.purdue.edu/ex-tmmedia/AS/AS-595-COMMONDISEASES.PDF)

Housing



JACKSON, K., HAYES, M., & TARABA, J. (2020, MARCH). CONSIDERATIONS IN GOAT BARN DESIGN. UNIVERSITY OF KENTUCKY COLLEGE OF AGRICULTURE, FOOD, AND ENVIRONMENT COOPERATIVE EXTENSION SERVICE. [HTTPS://WWW2.CA.UKY.EDU/AGCOMM/PUBS/AEN/AEN148/AEN148.PDF](https://www2.ca.uky.edu/agcomm/pubs/aen/aen148/aen148.pdf)

Housing Type	Doe resting(area/goat)	Buck resting(area/goat)	Young kid resting(area/kid)	Growing kid resting(area/kid)
Bedded pen/with lot	12 - 18 ft ²	30 - 40 ft ²	3 - 5.5 ft ²	8 - 10 ft ²
Dirt lot	25 - 40 ft ²	100 ft ²	15 - 20 ft ²	20 - 30 ft ²
Paved lot	16 ft ²	50 ft ²	5 ft ²	10 ft ²
Bedded pen - total confinement	20 - 25 ft ²	50 ft ²	8 - 10 ft ²	8 - 10 ft ²
Individual pen	6' x 6'	6' x 6'	4' x 4'	4' x 4'
Kidding pen(1 pen per 10 does)	5' x 5'	N/A	N/A	N/A

Table from: Merkel, R.C., Gipson, T.A., & Sahlu (editors). (2016). Dairy Goat Handbook. American Institute for Goat Research, Langston University. Pg. 251. Data adapted from: Ensminger & Parker. (1986). Sheep and goat science. & MWPS Sheep Handbook. (1994).



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