

9. Literaturverzeichnis

Adams R, Garry FB, Holland MD (1995):
Clinicopathologic measurements in newborn beef calves experiencing mild to moderate degrees of dystocia.
Agri-Pract., 16: 5-11

Adams R, Garry FB, Aldridge BM, Holland MD, Odde KG (1992):
Hematologic values in newborn beef calves.
Am. J. Vet. Res., 53: 944-950

Alderman G (1963):
Mineral nutrition and reproduction in cattle.
Vet. Rec., 75: 1015-1018

Alexander G (1964):
Studies on the placenta of the sheep (*ovis aries*) I. Placental size.
J. Reprod. Fertil., 7: 289-305

Allcroft R, J. S, Hignett SL (1954):
A preliminary report on hypothyroidism in cattle and its possible relationship with reproductive disorders.
Vet. Rec., 66: 367-371

Anderson DC, Bellows RA (1967):
Some causes of neonatal and postnatal calf losses.
J. Anim. Sci., 26: 941

Anderson P (1990):
Minimizing calving difficulty in beef cattle.
05. März 2005,
URL: <http://www.extension.umn.edu/beef/components/publications/bcmu07.pdf>

Anonym (2001):
Totgeburten haben sich verdoppelt.
Top Agrar, 12: R2

Anthony RV, Bellows RA, Short RE, Staigmiller RB, Kaltenbach CC, Dunn TG (1986):
Fetal growth of beef calves. I. Effect of prepartum dietary crude protein on birth weight, blood metabolites and steroid hormone concentrations.
J. Anim. Sci., 62: 1363-1374

Azzam SM, Kinder JE, Nielson MK, Werth LA, Gregory KE, Cundiff LV, Koch RM (1993): Environmental effects on neonatal mortality of beef calves.
J. Anim. Sci., 71: 282-290

Bagley CV (1997):
Preventing calf losses.
URL: <http://extension.usu.edu/files/agpubs/beef07.pdf>

Basarab JA, Rutter LM, Day PA (1993):
The efficiency of predicting dystocia in yearling beef heifers: I. Using ratios of pelvic area to birth weight or pelvic area to heifer weight.
J. Anim. Sci., 71: 1359-1371

Baumgartner W, Schlerka G, Petschenig W (1980):
Untersuchungen über die Blutgase, den Säure-Basen-Haushalt, Elektrolytgehalt, einige Enzyme und Inhaltsstoffe im Blut neugeborener Kälber (II. Mitteilung: Elektrolytgehalte, Enzymaktivitäten und Gehalt an Gesamtbilirubin).
Dtsch. tierärztl. Wschr., 87: 1-40

Bell AW (1995):
Regulation of organic nutrient metabolism during transition from late pregnancy to early lactation.
J. Anim. Sci., 73: 2804-2819

Bell AW, Slepetic R, Ehrhardt RA (1995):
Growth and accretion of energy and protein in the gravid uterus during late pregnancy in Holstein cows.
J. Dairy Sci., 78: 1954-1961

Bellows RA, Short RE (1978):
Effects of precalving feed level on birth weight, calving difficulty and subsequent fertility.
J. Anim. Sci., 46: 1522-1528

Bellows RA, Lammoglia MA (2000):
Effects of severity of dystocia on cold tolerance and serum concentration of glucose and cortisol in neonatal beef calves.
Theriogenology, 53: 803-813

Bellows RA, Short RE, Richardson GV (1982):
Effects of sire, age of dam and gestation feed level on dystocia and postpartum reproduction.
J. Anim. Sci., 55: 18-27

Bellows RA, Patterson DJ, Burfening PJ, Phelps DA (1987):
Occurrence of neonatal and postnatal mortality in range beef cattle. II. Factors contributing to calf death.
Theriogenology, 28: 573-586

Bellows RA, Genho PC, Moore SA, Chase CC (1996):
Factors affecting dystocia in Brahman-Cross heifers in subtropical southeastern United States.
J. Anim. Sci., 74: 1451-1456

Bellows RA, Short RE, Anderson DC, Knapp BW, Pahnish OF (1971):
Cause and effect relationships associated with calving difficulty and calf birth weight.
J. Anim. Sci., 33: 407-415

Berglund B, Steinbock L, Elvander M (2003):
Causes of stillbirth and time of death in Swedish Holstein calves examined post mortem.
Acta Vet. Scand., 44: 111-120

Bouda J, Jagos P (1984):
Biochemical and hematological reference values in calves and their significance of health control.
Acta Vet. BRNO, 53: 137-142

Bourdon RM, Brinks JS (1982):
Genetic, environmental and phenotypic relationships among gestation length, birth weight, growth traits and age at first calving in beef cattle.
J. Anim. Sci., 55: 543-553

Boyd GW, Kiser TE, Lowrey RS (1987):
Effects of prepartum energy intake on steroids during late gestation and on cow and calf performance.
J. Anim. Sci., 64: 1703-1709

Boyd JW (1989):
Relationships between acid-base balance, serum composition and colostrum absorption in newborn calves.
Br. vet. J., 145: 249-256

Carstens GE, Johnson DE, Holland MD, Odde KG (1987):
Effects of prepartum protein nutrition and birth weight on basal metabolism in bovine neonates.
J. Anim. Sci., 65: 745-751

Cawley GD (1987):
Selenium and weak calf syndrome.
Vet. Rec., January 10: 47

Chassagne M, Barnouin J, Charcornac JP (1999):
Risk factors for stillbirth in Holstein heifers under field conditions in France: a prospective survey.
Theriogenology, 51: 1477-1488

Collery P, Bradly J, Fagan J, Jones P, Redehan E, Weavers E (1996):
Causes of perinatal calf mortality in the Republic of Ireland.
Irish Vet. J., 49: 491-496

Collier RJ, Doelger SG, Head HH, Thatcher WW, Wilcox CJ (1982):
Effects of heat stress during pregnancy on maternal hormone concentrations, calf birth weight and postpartum milk yield of Holstein cows.
J. Anim. Sci., 54: 309-319

Comline RS (1972):
The composition of foetal and maternal blood during parturition in the ewe.
J. Physiol., 222: 233-256

Cook BR, Tess MW, Kress DD (1993):
Effects of selection strategies using heifer pelvic area and sire birth weight expected progeny difference on dystocia in first-calf heifers.
J. Anim. Sci., 71: 602-607

Corah LR, Dunn TG, Kaltenbach CC (1975):
Influence of prepartum nutrition on the reproductive performance of beef females and the performance of their progeny.
J. Anim. Sci., 41: 819-824

Crosse S, Soede N (1988):
The incidence of dystocia and perinatal mortality on commercial dairy farms in the South of Ireland.
Irish Vet. J., 42: 8 - 12

Da Silva P, Aitken RP, Rhind SM, Wallace JM (2000):
The effect of nutritionally-mediated placental growth restriction on fetal pituitary gonadotrophin gene expression and gonadal morphology at day 104 of gestation.
J. Reprod. Fertil., Abstract Series No. 25: 94

Daniels LB, Perkins JL, Krieder D, Tugwell D, Carpenter D (1974):
Blood Glucose and fructose in the newborn ruminant.
J. Dairy Sci., 57: 1196-1200

de Graaf F, Meijering A, van de Wiel DFM, Vos EA (1982):
Progesteron- en oestrogeenconcentraties in het perifere bloed van pinken in relatie tot het
partusverloop.
Tijdschr. Diergeneesk., 107: 941-949

DeRouen SM, Franke DE, Morrison DG, Wyatt WE, Coombs DF, White TW, Humes PE,
Greene BB (1994):
Prepartum body condition and weight influences on reproductive performance of first-calf
beef cows.
J. Anim. Sci., 72: 1119-1125

DLG (2001):
Empfehlungen zur Energie- und Nährstoffversorgung der Milchkühe und Aufzuchtrinder.
2 ed. Frankfurt, Deutsche Landwirtschafts Gesellschaft, 3769005910

Döcke F (1994):
Veterinärmedizinische Endokrinologie.
3 ed. Jena, Gustav Fischer Verlag Jena, Stuttgart, 3-334-60432-2

Doornbos DE, Bellows RA, Burfening PJ, Knapp BW (1984):
Effects of dam age prepartum nutrition and duration of labor on productivity and postpartum
reproduction in beef females.
J. Anim. Sci., 59: 1-10

Duft JH (1972):
Clinical studies on bovine parturition
Maternal causes of dystocia and stillbirth in an experimental herd of Hereford cattle.
Aust. Vet. J., 48: 1-6

Dwyer CM (2003):
Behavioural development in the neonatal lamb: effect of maternal and birth-related factors.
Theriogenology, 59: 1027-1050

Dwyer CM, Lawrence AB, Bishop SC, Lewis M (2003):
Ewe-lamb bonding behaviours at birth are affected by maternal undernutrition in pregnancy.
Br. J. Nutr., 89: 123-136

Echternkamp SE (1993):
Relationship between placental development and calf birth weight in beef cattle.
Anim. Reprod. Sci., 32: 1-13

Echternkamp SE, Hruska RL (1984):
The relationship between prepartum systemic estrone sulfate concentrations and calf birth
weight in beef cows.
J. Anim. Sci., 59: 368

Eissa HM, El-Belely MS (1990):
Sequential changes in plasma progesterone, total oestrogens and corticosteroids in the cow
throughout pregnancy and around parturition.
Br. vet. J., 146: 24-29

Eley RM, Thatcher WW, Bazer FW, Wilcox CJ, Becker RB, Head HH, Adkinson RW (1978):
Development of the conceptus in the bovine.
J. Dairy Sci., 61: 467-473

Erb RE, D'Amico MF, Chew BP, Malven PV, Zamet CN (1981):
Variables associated with peripartum traits in dairy cows. VIII. Hormonal profiles associated
with dystocia.
J. Anim. Sci., 52: 346-358

Faulkner A (1983):
Foetal and neonatal metabolism.
In: J.A.F. and Thomas PCR, ed. Nutritional Physiology of Farm Animals. Longman Group
United Kingdom, 203-242

Ferrell CL (1991 a):
Maternal and fetal influences on uterine and conceptus development in the cow: I. Growth of
tissues of the gravid uterus.
J. Anim. Sci., 69: 1945-1953

Ferrell CL (1991 b):
Maternal and fetal influences on uterine and conceptus development in the cow: II. Blood
flow and nutrient flux.
J. Anim. Sci., 69: 1954-1965

Ferrell CL, Ford SP (1980):
Blood flow steroid secretion and nutrient uptake of the gravid bovine uterus.
J. Anim. Sci., 50: 1113-1121

Ferrell CL, Jenkins TG (1985):
Cow type and the nutritional environment: nutritional aspects.
J. Anim. Sci., 61: 725-741

Ferrell CL, Reynolds LP (1992):
Uterine and umbilical blood flows and net nutrient uptake by fetuses and uteroplacental tissues of cows gravid with either single or twin fetuses.
J. Anim. Sci., 70: 426-433

Ferrell CL, Garrett WN, Hinman N (1976):
Growth, development and composition of the udder and gravid uterus of beef heifers during pregnancy.
J. Anim. Sci., 42: 1477-1489

Ferrell CL, Ford SP, Prior RL, Christenson RK (1983):
Blood flow, steroid secretion and nutrient uptake of the gravid bovine uterus and fetus.
J. Anim. Sci., 356: 656-667

Fitch JB, McGilliard PC, Drumm GM (1924):
A study of the birth weight and gestation of dairy animals.
J. Dairy Sci.: 222-233

Ford SP (1995):
Control of blood flow to the gravid uterus of domestic livestock species.
J. Anim. Sci., 73: 1852-1860

Freetly HC (2000):
Timing of realimentation of mature cows that were feed-restricted during pregnancy influences calf birth weights and growth rates.
J. Anim. Sci., 78: 2790-2796

Gearhart MA, Curtis CR, Erb HN, Smith RD, Sniffen LE, Chase LE, Cooper MD (1990):
Relationship of changes in condition score to cow health in Holsteins.
J. Dairy Sci., 73: 3132-3140

Godfredson JA, Holland MD, Odde KG, Hossner KL (1991):
Hypertrophy and hyperplasia of bovine fetal tissues during development: fetal liver insulin-like growth factor I mRNA expression.
J. Anim. Sci., 69: 1074-1081

Godfrey K, Robinson S (1998):
Maternal nutrition, placental growth and fetal programming.
Proc. Nutr. Soc., 57: 105-111

Goehring TB, Corah LR, Higgins JJ (1989):
Effects of energy and lasalocid on productivity of first-calf heifers.
J. Anim. Sci., 67: 1879-1888

Gore MT, Young RB, Claeys MC, Chromiak JA, Rahe CH, Marple DN, Hough JD, Griffin JL, Mulvaney DR (1994):
Growth and development of bovine fetuses and neonates representing three genotypes.
J. Anim. Sci., 72: 2307-2318

Grant RJ, Albright JL (1995):
Feeding behaviour and management factors during the transition period in dairy cattle.
J. Anim. Sci., 73: 2791-2803

Grummer RR (1999):
Energy and protein nutrition of the transition dairy cow.
Colorado State University Dairy Nutritional Conference, Colorado

Grunert E, Berchtold M (1999):
Fertilitätsstörungen beim weiblichen Rind.
3 ed. Berlin, Wien, Parey Buchverlag im Blackwell Wissenschafts-Verlag GmbH, 3-8263-3150-8

Guedon L, Saumande J, Desbals B (1999):
Relationships between calf birth weight, prepartum concentrations of plasma energy metabolites and resumption of ovulation postpartum in Limousine suckled beef cows.
Theriogenology, 52: 779-789

Hawkins DE, Niswender KD, Oss GM, Moeller CL, Odde KG, Sawyer HR, Niswender GD (1995):
An increase in serum lipids increases luteal lipid content and alters the disappearance rate of progesterone in cows.
J. Anim. Sci., 73: 541-545

Hemken RW (1974):
Iodine.
J. Dairy Sci., 53: 1138-1143

Herdt TH, Stowe HD (1991):
Fat-soluble vitamin nutrition for dairy cattle.
Vet. clin. North Am.: food anim. pract., 7: 391-415

Hidiroglou M (1980):
Trace elements in the fetal and neonate ruminant: A review.
Can. vet. J., 21: 328-335

Holland MD, Odde KG (1992):
Factors affecting calf birth weight: A review.
Theriogenology, 38: 769-798

Holter JB, Bullis JA, Hayes HH (1986):
Predicting maternal protein and fat balances of growing and mature dry cows.
J. Dairy Sci., 69: 2622-2635

Hopkins G, Gardner D, Pearsce S, Butt E, Bispham J, Campbell KS, Ramsay MM, Symonds ME (2003):
Protein supplementation at specific stages of gestation can promote growth of fetal organs associated with immune competence as well as adipose tissue deposition in sheep.
Proc. Nutr. Soc., 62: 39A

Hughton PL, Corah RC (1989):
Calving difficulty in beef cattle.
URL: www.oznet.ksu.edu/library/LVSTK2/C705.pdf

Jahnke B (2002):
Verluste in der Kälber- und Jungrinderaufzucht ökonomisch betrachtet.
10.07.2003, www.landwirtschaft-mv.de/verluste.mv

Jahnke B (2003):
Aufzuchtverluste: Stand und Möglichkeiten zur Reduzierung.
5. Raminer Kälber- und Jungrinderseminar 2003

James LF, Panter KE, Nielson DB, Moyneux RJ (1992):
The effect of natural toxins on reproduction in livestock.
J. Anim. Sci., 70: 1573-1579

James LF, Panter KE, Stegelmeier BL, Moyneux RJ (1994):
Effect of natural toxins on reproduction.
Vet. clin. North Am.: food anim. pract., 10: 587-603

Jenny BF, Gramling GE, Glaze TM (1981):
Management factors associated with calf mortality in South Carolina dairy herds.
J. Dairy Sci., 64: 2284-2289

Johnson SK, Deutscher GH, Parkhurst A (1988):
Relationships of pelvic structure, body measurements, pelvic area and calving difficulty.
J. Anim. Sci., 66:

Joubert DM, Bonsma FN (1957):
The effect of nutrition on the birth weight of calves.
Sci. Bull., South African Department of Agricultural Science, No. 371:

Kasari TR (1994):
Physiologic mechanisms of adaptation in the fetal calf at birth.
Vet. clin. North Am.: food anim. pract., 10: 127-135

Kindahl H, Kornmatitsuk B, Konigsson K, Gustafsson H (2002):
Endocrine changes in late bovine pregnancy with special emphasis on fetal well-being.
Domest. Anim. Endocrinol., 23: 321-328

Koger M, Mitchell JS, Kidder RW, Burns WC, Hentges JFJ (1967):
Factors influencing survival in beef calves.
J. Anim. Sci., 26: 205

Kolb E (1959):
Die Bedeutung des Mangans in der Tierernährung.
Tierärztl. Umschau, 14: 265-268

Koonce KL, Dillard EU (1967):
Some environmental effects on birth weight and gestation length in Hereford cattle.
J. Anim. Sci., 26: 205

Kornmatitsuk B, Franzen G, Gustafsson H, Kindahl H (2003):
Endocrine measurements and calving performance of Swedish red and white and Swedish
Holstein dairy cattle with special respect to stillbirth.
Acta Vet. Scand., 44: 21-33

Kornmatitsuk B, Dahl E, Ropstad E, Beckers JE, Gustafsson H, Kindahl H (2004):
Endocrine profiles, haematology and pregnancy outcomes of late pregnant Holstein dairy
heifers sired by bulls giving a high or low incidence of stillbirth.
Acta Vet. Scand., 45: 47-68

Kraft W, Dürr UM (1999):
Klinische Labordiagnostik in der Tiermedizin.
5 ed. Stuttgart; New York, Schattauer, 3-7945-1942-6

Kroker GA, Cummins LJ (1979):
The effect of nutritional restriction on Hereford heifers in late pregnancy.
Aust. Vet. J., 55: 467-474

Kühne S, Kolb E, Gründel G, Nestler K, Schineff C, Schmidt U (1989):
Untersuchungen über den Hämatokritwert und den Hämoglobingehalt des Blutes sowie den
Gehalt an Gesamtprotein, freien Fettsäuren, Glucose, Laktat, Ca, Mg, Na, K, P_a, Fe, Fe-
Bindungskapazität, Cu und Zn im Blutplasma von neugeborenen Kälbern sowie bei den
Muttertieren unmittelbar nach der Geburt.
Arch. exper. Vet. med., 43: 261-277

Kurz MM, Willett LB (1991):
Carbohydrate, enzyme, and hematology dynamics in newborn calves.
J. Dairy Sci., 74: 2109-2118

Lammoglia MA, Willard ST, Oldham JR, Randel RD (1996):
Effects of dietary fat and season on steroid hormonal, cholesterol, triglycerides, follicular
patterns, and postpartum reproduction in Brahman cows.
J. Anim. Sci., 74: 2253-2262

Lammoglia MA, Holloway JW, Lewis AW, Neuendorff DA, Randel RD (1995):
Influence of maternal and service-sire breed on serum progesterone and estrogen before
calving and plasma 13, 14-dihydro-15-keto-prostaglandin F2 alpha after calving.
J. Anim. Sci., 73: 1167-1173

Laster DB (1974):
Factors affecting pelvic size and dystocia in beef cattle.
J. Anim. Sci., 38: 496-503

Laster DB, Gregory KE (1973):
Factors influencing peri- and early postnatal calf mortality.
J. Anim. Sci., 37: 1092-1097

Laster DB, G limp HA, Cundiff LV, Gregory KE (1973):
Factors affecting dystocia and the effects of dystocia on subsequent reproduction in beef
cattle.
J. Anim. Sci., 36: 695-705

Lawrence TLJ, Fowler VR (1997):
Growth of farm animals.
2 ed. Wallingford, CAB INTERNATIONAL, 0-85198-849-0

Leung ST, Wathes DC (1999):
Regulatory effect of steroid hormones and fetal tissues on expression of oxytocin receptor in the endometrium of late pregnant ewes.
J. Reprod. Fertil., 115: 243-250

Leung ST, Wathes DC (2000):
Oestradiol regulation of oxytocin receptor expression in cyclic bovine endometrium.
J. Reprod. Fertil., 119: 287-292

Logan EF, Rice DA, Smyth JA, Ellis WA (1990):
Weak calf syndrome and parenteral selenium supplementation.
Vet. Rec., 126: 163-164

Lohuis MM, Miglior F, Dekkers JCM, Burnside EB (1993):
Stillbirth and dystocia in breeding programs.
08.03.2004, <http://cgil.uoguelph.ca/pub/articles/stillbirth.html>

Makarechian M, Berg RT (1983):
A study of some of the factors influencing ease of calving in range beef heifers.
Can. J. Anim. Sci., 63: 255-263

Makarechian M, Berg RT, Weingardt R (1982):
Factors influencing calving performance in range beef cattle.
Can. J. Anim. Sci., 62: 345-352

Maree C (1986):
The influence of high level feeding on the duration of parturition and the incidence of dystocia in dairy cows.
J. S. Afr. Vet. Assoc., 57: 151-153

Massip A (1980):
Relationship between pH, plasma cortisol and glucose concentrations in the calf at birth.
Br. vet. J., 136: 597-601

McClandish AC (1922):
Studies in the growth and nutrition of dairy calves.
J. Dairy Sci., V: 301-320

McDermott JJ, Allen OB, Martin SW, Alves DW (1992a):
Patters of stillbirth and dystocia in Ontario cow-calf herds.
Can. J. Vet. Res., 56: 47-55

McGinty DD (1973):
Precalving energy levels for beef cows.
J. Anim. Sci., 36: 1192 (Abstr.)

Mee JF (1990):
Perinatal calf mortality - recent findings.
Irish Vet. J., 44: 80-83

Mee JF (1991):
Weak calf syndrome.
Vet. Rec., May 18: 484

Mee JF (1993):
Goitre in stillborn calves.
Vet. Rec., October 16: 404

Mellor DJ (1987):
Nutritional effects on the fetus and mammary gland during pregnancy.
Proc. Nutr. Soc., 46: 249-257

Meyer CL, Berger PJ, Koehler KJ (2000):
Interactions among factors affecting stillbirths in Holstein cattle in the United States.
J. Dairy Sci., 83: 2657-2663

Milchverordnung (2004):
Verordnung über Hygiene- und Qualitätsanforderungen an Milch und Erzeugnisse auf
Milchbasis vom 12. November 2004
In: Bundesgesetzblatt, I, Nr. 58, S. 2794
URL: <http://www.veton.de/gesetze/>

Moe PW, Tyrell HF (1972):
Metabolizable energy requirements of pregnant dairy cows.
J. Dairy Sci., 55: 480-483

Moore WE (1969):
Acid-base and electrolyte changes in normal calves during the neonatal period.
Am. J. Vet. Res., 30: 1133-1138

Naazie A, Makarechian MM, Berg RT (1989):
Factors influencing calving difficulty in beef heifers.
J. Anim. Sci., 67: 3243-3249

NAHMS NAHMS (1996):
Part I: Reference of 1996 Dairy Management Practices.
USDA:APHIS:VS, 33

Nathanielsz PW (1993):
A time to be born: How the fetus signals to the mother that it is time to leave the uterus.
Cornell Vet., 83: 181-186

Neville WE, Mullinix BG, Jr., Smith JB, McCormick WC (1978):
Growth patterns for pelvic dimensions and other body measurements of beef females.
J. Anim. Sci., 47: 1080-

Nix JM, Spitzer JC, Grimes LW, Bruns GL, Plyler BB (1998):
A retrospective analysis of factors contributin to calf mortality and dystocia in beef cattle.
Theriogenology, 49: 1515-1523

Norton JH, Campbell RSF (1990):
Non-infectious causes of bovine abortion.
Vet. Bull., 60: 1137-1147

NRC (2001):
Nutrient requirements of dairy cattle.
7 ed. Washington, D.C., National Academy Press, 0-309-06997-1

O'Brien T, Stott GH (1977):
Prepartum serum hormone concentrations related to dystocia in Holstein heifers.
J. Dairy Sci., 60: 249-253

Osinga A (1978):
Endocrine aspects of bovine dystocia with special reference to estrogens.
Theriogenology, 10: 149-163

Oxender WD, Newman LE, Morrow DA (1973):
Factors influencing dairy calf mortality in Michigan.
J.A.V.M.A., 162: 458-460

Panicke L, Biemann J, Matthis H, Keusenhoff R, Lehmann W, Brandenburg K (1987):
Verbesserte Färsenaufzucht.
1 ed. Stuttgart, agrarbuch

Panter KE, Stegelmeier BL (2000):
Reproductive toxicoses of food animals.
Vet. clin. North Am.: food anim. pract., 16: 531-544

Patterson DJ, Bellows RA, Burfening PJ, Carr JB (1987):
Occurrence of neonatal and postnatal mortality in range beef cattle. I. Calf loss incidence
from birth to weaning, backward and breech presentations and effects of calf loss on
subsequent pregnancy rate of dams.
Theriogenology, 28: 557-571

Perry RC, Corah LR, Cochran RC, Beal WE, Stevenson JS, Minton JE, Simms DD, Brethour
JR (1991):
Influence of dietary energy on follicular development, serum gonadotropins, and first
postpartum ovulation in suckled beef cows.
J. Anim. Sci., 69: 3762-3773

Perry VEA, Norman ST, Owen JA, Daniel RCW, Phillips N (1999):
Low dietary protein during early pregnancy alters bovine placental development.
Anim. Reprod. Sci., 55: 13-21

Peterson AJ, Hunter JT, Welch RAS, Fairclough RJ (1975):
Oestrogens in bovine fetal and maternal plasma near term.
J. Reprod. Fertil., 43: 179-181

Plonait H (1980):
Laborwerte beim Kalb.
In: Labordiagnostik für die Tierärztliche Praxis. Paul Parey, 134

Prior RL, Lester DB (1979):
Development of the bovine fetus.
J. Anim. Sci., 48: 1546-1553

Quigley JD, Drewry JJ (1998):
Nutrient and immunity transfer from cow to calf pre- and postcalving.
J. Dairy Sci., 81: 2779-2790

Randall GCB (1978):
Perinatal mortality: Some problems of adaption at birth.
Adv. Vet. Sci. Comp. Med., 22: 53-80

Rasby RJ, Wettemann RP, Geisert RD, Rice LE, Wallace CR (1990):
Nutrition, body condition and reproduction in beef cows: Fetal and placental development, and estrogens and progesterone in plasma.
J. Anim. Sci., 68: 4267-4276

Reynolds LP, Ferrell CL (1987):
Transplacental clearance and blood flows of bovine gravid uterus at several stages of gestation.
Am. J. Physiol., 253: R735- R739

Reynolds LP, Redmer DA (1995):
Utero-placental vascular development and placental function.
J. Anim. Sci., 73: 1839-1851

Reynolds LP, Ferrell CL, Nienaber JA, Ford SP (1985):
Effects of chronic environmental heat stress on blood flow and nutrient uptake of the gravid bovine uterus and foetus.
J. Agric. Sci., 104: 289

Rice LE (1994):
Dystocia-related risk factors.
Vet. clin. North Am.: food anim. pract., 10: 53-68

Rice LE, Wiltbank JN (1972):
Factors affecting dystocia in beef heifers.
J.A.V.M.A., 161: 1348-1358

Ritchie HD, Anderson PT (1998):
Calving difficulty in beef cattle: Factors affecting dystocia.
URL: www.redangus1.org/magazine/editiondec98/calvingdiff.html

Robinson JJ (1990):
Nutrition in the reproduction of farm animals.
Nutr. Res. Reviews, 3: 253-276

Rosenberger G (1990):
Die klinische Untersuchung des Rindes.
3 ed. Berlin und Hamburg, Paul-Parey, 3-489-56516-9

Sanders DE, Sanders JA (1983):
Diagnosis and management of copper deficiency in dairy cattle.
Mod. Vet. Pract., 64: 613-618

Scheid T (2004):
Untersuchungen zur Stabilisierung der frühen postnatalen Adaptationsvorgänge bei Kälbern
in Mutterkuhhaltung - ein Beitrag zur Charakterisierung postnataler Anpassungsreaktionen.
Gießen, Justus-Liebig-Universität Giessen

Schröder B (2003):
Beurteilung der Aufzuchtqualität von Färsen mit Hilfe bildelektronischer Datenauswertung
und ultrasonographischer Rückenfettdickenmessung.
Berlin, Freie Universität Berlin; Journal-Nr.: 2782

Schröder U, Staufenbiel R (2002):
Konditionsbeurteilung per Ultraschall in der Herdenbetreuung.
Tierärztl. Praxis, 30: 362-368

Shell TM, Early RJ, Carpenter JR, Vincent DL, Buckley BA (1995):
Prepartum nutrition and solar radiation in beef cattle: I. Relationships of body fluid
compartments, packed cell volume, plasma urea nitrogen, and estrogens to prenatal
development.
J. Anim. Sci., 73: 1289-1302

Sieber M, Freeman AE, Kelley DH (1989):
Effects of body measurements and weight on calf size and calving difficulty of Holsteins.
J. Dairy Sci., 72: 2402-2410

Speicher JA, Hepp RE (1973):
Factors associated with calf mortality in Michigan dairy herds.
J.A.V.M.A., 162: 463-465

Spiekers H, Potthast V (2004):
Erfolgreiche Milchviehfütterung.
4 ed, DLG-Verlags GmbH

Spitzer JC, Morrison DG, Wettemann RP, Faulkner LC (1995):
Reproductive responses and calf birth and weaning weights as affected by body condition at
parturition and postpartum weight gain in primiparous beef cows.
J. Anim. Sci., 73: 1251-1257

Stonehouse DP, Hamilton T Summer calving - an appealing alternative.
URL: http://cattle.guelph.on.ca/research/stories/summer_calving.htm

Streit P, Ernst E (1992 a):
Einflüsse auf peri- und postnatale Kälberverluste unter besonderer Berücksichtigung der Haltungsbedingungen 1. Mitteilung: Einflüsse auf perinatale Kälberverluste.
Züchtungskunde, 64: 35-44

Streit P, Ernst E (1992 b):
Einflüsse auf peri- und postnatale Kälberverluste unter besonderer Berücksichtigung der Haltungsbedingungen - 2. Mitteilung: Einflüsse auf postnatale Kälberverluste.
Züchtungskunde, 64: 45-56

Symonds ME, Mostyn A, Stephenson T (2001 b):
Cytokines and cytokine receptors in fetal growth and development.
Biochem. Soc. Trans., 29: 33-37

Symonds ME, Budge H, Stephenson T, McMillen IC (2001 a):
Fetal endocrinology and development - manipulation and adaption to long-term nutritional and environmental challenges.
Reproduction, 121: 853-862

Taverne MAM, Breeveld-Dwarkasing VNA, van Dissel-Emilinai FMF, Bevers MM, de Jong R, van der Weiden GC (2002):
Between prepartum luteolysis and onset of expulsion.
Domest. Anim. Endocrinol., 23: 329-337

Thompson JR, Freeman AE, Berger PJ, Martinez ML (1981):
A survey of calf mortality in five dairy breeds.
J. Dairy Sci., 64: 1164 (Abstr.)

Timmerman HM, Mulder L, Everts H, van Espen DC, van der Wal E, Klaassen G, Rouwers SMG, Hartemink R, Rombouts FM, Beyen AC (2005):
Health and growth of veal calves fed milk replacers with or without probiotics.
J. Dairy Sci., 88: 2154-2165

Toombs RE, Wikse SE, Kasari TR (1994):
The incidence, causes, and financial impact of perinatal mortality in North American beef herds.
Vet. clin. North Am.: food anim. pract., 10: 137-146

Tudor GD (1972):
The effect of pre- and post-natal nutrition on the growth of beef cattle
I. The effect of nutrition and parity of the dam on calf birth weight.
Aust. J. agric. Res., 23: 389-395

Van Saun RJ (1991):
Dry cow nutrition - The key to improving fresh cow performance.
Vet. clin. North Am.: food anim. pract., 7: 599-620

Vandehaar MJ, Yousif G, Sharma BK, Herdt TH, Emery RS, Allen MS, Liesman JS (1999):
Effect of energy and protein density of prepartum diets on fat and protein metabolism of dairy cattle in the periparturient period.
J. Dairy Sci., 82: 1282-1295

Vermorel MJ, Vernet J, Dardillat C, Saido DC, Marie-Jeanne D (1989):
Energy metabolism and thermoregulation in the newborn calf.
Can. J. Anim. Sci., 69: 113-122

Vestweber JG (1997):
Respiratory problems of newborn calves.
Vet. clin. North Am.: food anim. pract., 13: 441-424

Vonnahme KA, Ford SP (2002):
Increases in vascular endothelial growth factor (VEGF) during the second trimester of gestation are correlated with calf birth weight in beef heifers.
University of Wyoming Annual Science Research Report 2002. 66-69

Waltner-Toews D, Martin SW, Meek AH (1986):
Dairy calf management, morbidity and mortality in Ontario Holstein herds. IV. Association of management with mortality.
Prev. Vet. Med., 4: 159-171

Wiley JS, Peterson MK, Ansotegui RP, Bellows RA (1991):
Production from first-calf beef heifers fed maintenance or low level of prepartum nutrition and ruminally undegradable or degradable protein postpartum.
J. Anim. Sci., 69: 4279-4293

Wiltbank JN, Remmenga EE (1982):
Calving difficulty and calf survival in beef cows fed two energy levels.
Theriogenology, 17: 587-602

Withers FW (1952):
Mortality rates and disease incidence in calves in relation to feeding, management, and other environmental factors.
Br. vet. J., 108: 315-328

Wythes JR, Strachan RT, Durand MRE (1976):
A survey of dystocia in beef cattle in Southern Queensland.
Aust. Vet. J., 52: 570-574

Young JS (1968):
Breeding patterns in commercial beef herds
3. Observations on dystocia in a Devon herd.
Aust. Vet. J., 44: 550-556

Young JS (1970):
Studies on dystocia and birth weight in Angus heifers calving at two years of age.
Aust. Vet. J., 46: 1-7

Zdunczyk S, Ahlers D (1993):
Untersuchungen über Östrogenkonzentrationen in der Vena jugularis und der Vena cava caudalis beim hochträchtigen Rind.
Tierärztl. Umschau, 48: 627-629

Zdunczyk S (1991):
Übersichtsreferat: Einflussfaktoren auf die Östrogen- und Progesteronkonzentration im Blut des hochträchtigen Rindes.
Dtsch. tierärztl. Wschr., 98: 365-404

Zhang W-C, Nakao T, Kida K, Moriyoshi M, Nakada K (2002):
Effect of nutrition during pregnancy on calf birth weights and viability and fetal membrane expulsion in dairy cattle.
J. Reprod. Developm., 48: 415-422