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Comella, M.	166	Dall'olio, S.	164
Commun, L.	118	Dalmau, A.	112, 254, 287
Conde-Aguilera, J.A.	567, 584	Dammann, M.	70, 71
Cone, J.W.	312, 563, 563	Dämmgen, U.	402
Cong, T.V.C.	606	Danchin-Burge, C.	68, 71, 121
Conte, G.	189	D'Andrea, M.	17, 133, 149
Conti, R.M.C.	367	D'Andrea, S.	117, 118
Contiero, B.	306	Danesh Mesgaran, M.	313, 371, 373, 379, 383, 520, 572, 575, 581, 587, 593
Contò, G.	365	Daniel, J.	93
Cornou, C.	622	Danieli, P.P.	577
Cornu, A.	313	Danvy, S.	222
Correa, J.A.	254	Darabi, S.	274
Correia, M.J.	429, 432	Dardenne, P.	202, 203
Corte, R.R.P.S.	408	Daridan, D.	130
Cortés, O.	153	Darnhofer, I.	289
Coster, A.	157, 296, 300, 301	Das, A.	246, 560
Cothran, E.G.	175	Dashab, G.H.	360, 360
Coueron, E.	336	Daskalopoulou, E.	527
Coughlan, F.	350	Dastar, B.	57, 353
Cournut, S.	290	David, I.	260, 599
Couvreux, S.	324	David, V.	250
Cozzi, G.	332	Davis, S.R.	185
Crenshaw, J.	449	Davis, T.A.	94
Crepaldi, P.	186, 317	Davoli, R.	133, 164, 166
Crepon, K.	230	Davy, J.	327
Crespo, D.G.	516	Dawson, K.	244
Crespo, I.	124	Daza, A.	246
Crespo, J.P.	516	Daza, J.	315
Crews Jr., D.H.	148	Daß, G.	342
Croiseau, P.	2, 294	De Argüello Díaz, S.	22
Cromie, A.R.	141, 183	De Boer, I.J.M.	111
Crompton, L.A.	25	De Boever, J.L.	354, 514
Cronin, G.M.	437	De Brabander, D.L.	96, 354, 569
Crooijmans, R.P.	140	De Campeneere, S.	354, 569
Crook, B.J.	150	De Freitas, M.A.R.	152
Crowley, J.J.	148	De Greef, K.H.	1, 125, 480, 497, 623, 623, 624
Cruz, V.	115	De Haas, Y.	6
Csapó, J.	472	De Klerk, B.	605
Cucco, D.C.	189	De Koning, D.J.	135, 138, 169, 178, 601, 611, 612
Cue, R.I.	180, 195	De La Chevrotière, C.	256, 460
Curran, J.	310	De La Fuente, J.	11
Cutullic, E.	104	De La Fuente, L.F.	185, 258
Cyrino, J.E.P.	356	De Marchi, M.	148
Cziszter, L.T.	620	De Montera, B.	181
		De Ondiz, A.	154, 405
<b>D</b>		De Pedro, E.	213
D'Abbadie, F.	169	De Renobales, M.	49, 53
Dabiri, N.	45	De Roest, K.	622
Daetwyler, H.D.	293	De Roos, A.P.W.	29
Daftarian, P.M.	177	De Smet, K.	514
Daga, C.	146	De Vries, M.	111
Dal Maso, M.	350	De Wit, A.A.C.	181
D'Alessandro, A.G.	84, 84, 90	De Witt, F.H.	534
Dalin, G.	215	D'Eath, R.B.	281, 282
Daliri, M.	397, 398	Debus, N.	485
Dallan, E.M.	494		

### **Influences of ensiling wet barley distillers' grain with sugar beet pulp on lactating performance of dairy cows**

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An experiment was conducted to evaluate the effect of ensiling wet barley distillers' grain with different levels of sugar beet pulp on dairy cattle performance was examined. Eighteen Holstein dairy cows ( $86 \pm 10$  day's postpartum  $600 \pm 20$  kg BW), were penned individually and randomly allocated to three treatments in a balanced completely randomized design (repeated measures). Three diets were formulated to compose 7.5% of TMR. Treatments were an ensiled mixture of 60% barley distillers' grain (BDG) with 40% beet pulp (BP) (BDGBP 40%), ensiled mixture of 80% BDG with 20% BP (BDGBP 20%), and BDG 100% ensiled without 0.0%BP (BDGBP 0%). Experimental diets contained, 40% forage (60:40, corn silage: alfalfa hay) and 60% concentrate. Cows were fed a total mixed ration and milked three times daily. Diet concentrations of NDF, ADF and CP were 33.2, 19.6 and 16.4% DM (for BGBP 40%), 33.7, 20 and 16.8% DM (for BGBP 20%) and 33.8, 20.5 and 16.8% DM (BGBP 0%), respectively. The feed intakes, daily milk yield and milk composition were not significantly different between treatments. There was no significant effect of treatments on rumen pH and  $\text{NH}_3\text{-N}$ . Also there was no significant effect on blood plasma metabolites. It is concluded that partial substitution BG ensiled with or without BP for corn silage did not have any negative effect on the performance of Holstein dairy cows.

### **Assessment of nutritional values of Caraway seed pulp (CSP) by *in situ* and *in vitro* technique**

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Factors obstruct animal production in Afghanistan, as well as other countries are numerous and serious. Among of them unstable price and shortage of some of the conventional protein sources. Caraway seed pulp (CSP) is a major agro-industrial by-product from extract herb factory. The CSP are high in protein and fat with reported ether extract (EE) of 6%, CP of 15.2%, ADF of 51% and NDF of 55%. Because of the nutrient content, CSP appear to be a desirable feed ingredient in ruminant nutrition. The ruminal degradability of dry matter in CSP were estimated up to 48 h in three rumen fistulaed Holstein steer using the mobile nylon bag method. Treated Samples of CSP with PEG and urea were also fermented using Menk and Steingass gas production technique up to 96 h. Samples were run in duplicate in two separate runs. The estimated parameters of degradability's of DM indicated that CSP had high potential of degradability. The quickly degradable DN fraction (a) was 25.41 and potentially degradable DM fraction (b) of CSP was 55.15. Cumulative gas production after 96 h incubation had no affected by PEG or urea although amount of gas produced in CSP containing PEG was 18% higher that control group.