

Dwarfism Serious To Cattlemen

Confusion and misinformation still exists about dwarfism in beef cattle, states County Agent Thompson. The following is a short discussion of what we know about dwarfism.

The destructive power of beef-cattle dwarfism, like that of an iceberg, is mostly hidden. What we can see—a fairly small number of dwarf calves—may not look dangerous. Yet beneath the surface lurks a natural force capable of great damage to this country's beef industry.

Fortunately, we know enough about dwarfism to limit economic losses from it. And research has made a good start toward better control methods. One result is the profilometer, an instrument for detecting the slight forehead bulge that may mark normal appearing animals as potential dwarf breeders.

Development of the profilometer followed the basic finding that dwarfism is inherited. It's not a disease, nor due to any fault of environment (such as deficient diet). Dwarf characteristics are transmitted by one or more recessive genes. This means that apparently normal cattle may still carry the gene and pass it on to some of their offspring. Also, animals that look normal are either carriers or dwarf free; there are no semi-carriers or partly dwarf-free animals. And if both parents are carriers, one-fourth of their calves, on the average will be dwarfs.

There is much we don't know

about dwarfism. How many dwarf calves are produced, each year? How many of our beef cattle are carriers? We still have no exact answers. Yet, ranchers, stockmen, researchers, and others concerned do agree that dwarfs in both registered and commercial beef herds have been increasing. This can only mean a growing number of apparently normal animals carry the dwarf gene—and may breed dwarfs. No major beef cattle breed or line of breeding is known to be dwarf free.

Surprisingly, there's evidence of a strong inadvertent tendency toward selection of carrier animals for breeding purposes. It may be due to their slightly earlier maturity or possibility to a subtle influence of the dwarf gene on conformation.

Ranchers fear dwarfism simply because it costs them money. A dwarf calf is practically worthless as a beef producer. It represents a loss of both the normal calf it might have been and the seasons investment that was made in its mother.

What can a rancher do? His first step is to limit or stop, if possible, matings between carrier animals. So far, the surest way to find carriers is by slow and expensive breeding tests. If a dwarf is born, you can be certain both its parents are carriers. But it takes many matings to obtain satisfactory evidence that an animal is not a carrier.

For a breeder to be sure 49 times times out of 50 that an unproved bull is dwarf free, the bull must produce normal calves with no dwarfs when bred to 14 proved carrier cows or to 30 cows sired by a known carrier bull (half of

which theoretically, would be carriers).

A reliable shortcut to finding dwarf-free bulls is obviously needed. But its accuracy must still be checked by breeding tests. That's why cows that have borne dwarfs (proved carriers) are valuable. They should not be slaughtered but saved for use as test animals.

The profilometer is the only means now in sight that can help us to distinguish—with reasonable accuracy and without extensive breeding tests—between carrier and dwarf-free cattle. The instrument was conceived by P. W. Gregory of the California agriculture experiment station. USDA and state workers and livestock industry representatives are cooperating in trial use and further research on the profilometer.

This device is used to draw a profile outlining the shape of a bull's head on a line extending from between the ears to the nose. The profile is then analyzed to determine whether the bull carries dwarf genes.

Dr. Otis G. Perkins
Optometrist

405 E. 2nd St.
(Across from Stadleman-Bonn Hardware)
Phone 5362 The Dalles, Ore.

Pilaf Recipes

SPANISH PILAF
1 cup processed wheat (coarse)
1 tablespoon salad oil
½ teaspoon garlic oil or 1 clove garlic sliced
¼ cup chopped green peppers
¼ cup chopped onions
Seasonings:
¼ teaspoon pepper
½ teaspoon salt
1 dash tabasco sauce
½ cup boiling water
½ No. 2 can tomatoes

Braze in the oil the first 5 ingredients, then add the seasoning and water. Cook in covered dish in oven for 45 minutes at 375 degrees. Add tomatoes and cook 15 minutes. Six portions

PILAF DELIGHT
Suggested by Mrs. Addie Peck

Mrs. Ronald Rew
1 lb. ground round
2 tablespoons olive oil
2 medium onions or 1 bunch green
Brown in pan the above three ingredients.
Mix thoroughly 1 cup Pilaf and 1 teaspoon salt and add to above
Add: 2 cups boiling broth or water, boil 15 minutes. Do not remove lid.
Add 1 cup mushroom soup before serving.
Add: Chopped almonds, pimentos and mushrooms if desired.

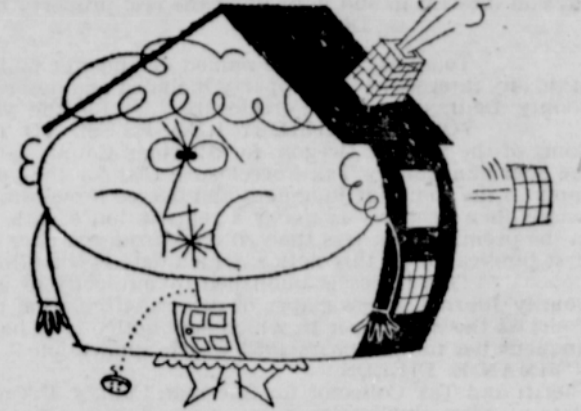
PROCESSED WHEAT PILAF
1 cup processed wheat (coarse)
2 cups broth or water
4 tablespoons fat or butter
½ small onion chopped (optional)
1 teaspoon salt
Fry onion until golden brown, stir in processed wheat, add boil-

ing broth or water and salt. Cook over medium heat with lid until tender. Do not mix during boiling or steaming period. Remove Pilaf to a serving dish separating the grains with a fork.
Serve hot with beef or lamb. Can also be used as dressing for pheasant or chicken.

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Name of Owner as Shown by Latest Tax Roll	Description of Property	Sect. Twp. or N. S. Lot or Block	Range East W. M.	Tax Roll Acct. No. & Code No. Vol. - Page - Line	Year of Delinquency	Am't of Taxes	Interest to 2-16-54	Total	Name of Owner as Shown by Latest Tax Roll	Description of Property	Sect. Twp. or N. S. Lot or Block	Range East W. M.	Tax Roll Acct. No. & Code No. Vol. - Page - Line	Year of Delinquency	Am't of Taxes	Interest to 2-16-54	Total
Walter Mee	Wasco Dunlaps 1st Addition	9, 10, 11 & 12	2	13-7	1946-47	1.25	.64	1.89	P D O'Meara	Wasco McPherson 1st Addition	7 & 8	4	138-7	1948-49	5.45	1.91	7.36
					1947-48	1.50	.65	2.15						1950-51	6.43	1.22	7.65
					1948-49	1.36	.48	1.84						1951-52	5.18	.57	5.75
					1949-50	1.54	.42	1.96						1952-53	5.72	.38	6.10
					1950-51	1.61	.31	1.92						Total			\$26.86
					1951-52	1.30	.14	1.44						1948-49	11.35	3.97	15.32
					1952-53	1.43	.10	1.53						1950-51	13.40	2.55	15.95
					Total			\$12.73						1951-52	10.80	1.19	11.99
														Total			\$43.26
A L Mottern C-o William Mitchell	Kent Original	4 & 5	6	39-K9J	1936	7.51	10.24	17.75	Jennie Blackwood Estate C-o Clara Pyburn	Wasco Original	E ½ 8	1	30-7	1931	5.48	9.24	14.72
					1940	5.41	5.64	11.05						1932	4.22	6.78	11.00
					1941	5.19	5.80	10.99						1933-34	5.34	8.13	13.47
					1942-43	2.97	2.47	5.44						1935	5.84	8.43	14.27
					1943-44	3.93	2.95	6.88						1941	3.95	3.81	7.76
					1944-45	6.17	4.13	10.30						1942	2.55	2.30	4.85
					1945-46	.58	.34	.92						1943-44	3.00	2.25	5.25
					1947-48	.55	.24	.79						1944-45	3.36	2.25	5.61
					1948-49	.73	.26	.99						1947-48	5.00	2.15	7.15
					1949-50	.58	.16	.74						1949-50	5.12	1.38	6.50
					1950-51	.69	.13	.84						1950-51	5.36	1.02	6.38
					1951-52	.85	.09	.94						1951-52	4.32	.48	4.80
					1952-53	.80	.05	.85						1952-53	4.77	.32	5.09
					Total			\$70.04						Total			\$106.85
J B Mowry	Moro Mowry Addition	5, 6 & 7	1	130-17	1947-48	.62	.27	.89	Broadacres Farm Inc. c-o Elvis N. Rich	Wasco Original	1	1	26-7	1949-50	58.37	15.76	74.13
					1948-49	1.48	.50	1.98						1950-51	61.10	11.61	72.71
					1949-50	.88	.24	1.12						1951-52	49.25	5.42	54.67
					1950-51	1.08	.21	1.29						1952-53	54.38	3.62	58.00
					1951-52	2.32	.26	2.58						Total			\$259.51
					1952-53	2.17	.14	2.31						Total			\$106.85
					Total			\$10.17						1947-48	7.50	3.23	10.73
J B Mowry	Moro Mowry Addition	No. 3	2	132-17	1947-48	.21	.09	.30	Albert Tate Estate	Wasco Original	7 & 8	9	64A-7	1948-49	6.81	2.38	9.19
					1948-49	.40	.14	.54						1949-50	7.68	2.07	9.75
					1949-50	.39	.11	.50						1950-51	8.04	1.53	9.57
					1950-51	.36	.07	.43						1951-52	6.48	.71	7.19
					1951-52	.77	.08	.85						1952-53	7.16	.48	7.64
					1952-53	.72	.05	.77						Total			\$94.07
					Total			\$3.39						1947-48	4.2	.18	.60
J B Mowry	Moro Mowry Addition	1 & 2	3	133-17	1947-48	.42	.18	.60	Martin Joyce C-o Brown & Van Vac- tor Atty.	Tract in SE¼ 206' x 206' 1A (Deed record Volume 29—page 465)	8	2N 16	75-3	1949-50	4.48	1.21	5.69
					1948-49	.79	.28	1.07						1950-51	4.94	.94	5.88
					1949-50	.79	.21	1.00						1951-52	5.73	.63	6.36
					1950-51	.72	.14	.86						1952-53	6.35	.42	6.80
					1951-52	1.55	.17	1.72						Total			\$24.73
					1952-53	1.45	.10	1.55						Total			\$24.73
					Total			\$6.80						1947-48	2.00	.86	2.86
J B Mowry	Moro Mowry Addition	5	5	142-17	1947-48	.21	.09	.30	R D Barnett C-o Glen Wallace	Wasco McPherson 2 Addition E 5' of	1 & 2	6	84-7	1948-49	1.82	.64	2.46
					1948-49	.40	.14	.54						1949-50	2.05	.55	2.60
					1949-50	.39	.11	.50						1950-51	2.14	.41	2.55
					1950-51	.36	.07	.43						1951-52	1.73	.19	1.92
					1951-52	.77	.08	.85						1952-53	1.91	.13	2.04
					1952-53	.72	.05	.77						Total			\$14.43
					Total			\$3.39						1947-48	18.00	7.74	25.74
J B Mowry	Moro Mowry Addition	5 & 6	7	151-17	1947-48	.42	.18	.60	G E Wallace	Wasco McPherson 2 Addition	W 45' of 2 All 3 & 4	6	85-7	1948-49	16.34	5.72	22.06
					1948-49	.79	.28	1.07						1949-50	18.43	4.98	23.41
					1949-50	.79	.21	1.00						1950-51	19.30	3.67	22.97
					1950-51	.72	.14	.86						1951-52	15.55	1.71	17.26
					1951-52	1.55	.17	1.72						1952-53	17.17	1.14	18.31
					1952-53	1.45	.10	1.55						Total			\$129.75
					Total			\$6.80						1944-45	.28	.19	.47
J B Mowry	Property all taxed on one assessment			130, 132, 133, 142 & 151 in code 17	1936	6.32	8.62	14.94	Anton C Young	Grass Valley Sherman Addition	6	16	166-23	1945-46	.21	.12	.33
	Moro Mowry Addition	5, 6 & 7	1		1938	5.91	7.11	13.02						1946-47	.24	.12	.36
	Moro Mowry Addition	3	2		1939	5.07	5.70	10.77						1947-48	.32	.14	.46
	Moro Mowry Addition	1 & 2	3		1940	4.80	5.01	9.81						1948-49	.38	.13	.51
	Moro Mowry Addition	5	5		1941	2.76	2.66	5.42						1949-50	.39	.11	.50
	Moro Mowry Addition	5 & 6	7		1942									1950-51	.38	.07	.45
	Moro Mowry Addition	5 & 6	7		6 Mos.	1.39	1.26	2.65						1951-52	.46	.05	.51
	Moro Mowry Addition	5 & 6	7		1942-43	2.35	1.95	4.30						1952-53	.42	.03	.45
	Moro Mowry Addition	5 & 6	7		1943-44	2.22	1.67	3.89						Total			\$4.04
	Moro Mowry Addition	5 & 6	7		1944-45	3.21	2.15	5.36						1944-45	.28	.19	