

FATS AND PROTEINS RESEARCH FOUNDATION, INC.

*Director's
Digest*



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UPDATE ON DISEASE RELATED MATTERS AND RESEARCH ARTICLES

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SALMONELLA SURVEILLANCE

A MIDWEST PROTEIN BLENDER REPORTED THE STATE OF WISCONSIN SAMPLED A BAG OF MEAT AND BONE MEAL (MBM) AND FOUND THAT THE SAMPLE WAS POSITIVE FOR SALMONELLA. THEY NOTIFIED THE BLENDER OF THEIR RESULTS AND REMARKED THAT THE MBM WAS ADULTERATED AND TO RECALL UNDISTRIBUTED PRODUCT FROM THE LOT. THEY ALSO NOTIFIED THE FDA.

THERE WAS NO RECALL AND FDA DID NOT SEEM OVERLY INTERESTED IN THE INCIDENT. PLEASE CONTACT ME IF YOU ENCOUNTER A SIMILAR PROBLEM.

SALMONELLA ENTERITIDIS

ABSTRACT FROM A PAPER ENTITLED "OBSERVATIONS ON THE EPIDEMIOLOGY OF SALMONELLA ENTERITIDIS: CASE STUDIES".

CHICKENS FROM 2 DEPOPULATED BREEDER FLOCKS WERE STUDIED FOR 5

AND 7 MONTHS. SALMONELLA ENTERITIDIS (SE)-POSITIVE EGGS WERE LAID BY 17/4,320 (0.39%) AND 19/5,931 (0.32%) CHICKENS. VISCERAL CULTURES AT NECROPSY WERE POSITIVE IN 5/249 (2.0%) AND 2/202 (0.99%) CHICKENS. SALMONELLA ENTERITIDIS WAS ISOLATED FROM INSPISSATED YOLK SAC REMNANTS FROM 34 OF 200 (17%) MALE CHICKENS FROM A POSITIVE BREEDER STOCK BUT WAS NOT FOUND IN THE SERO-GROUPING OF 1,823 COLONIES FROM 195 SAMPLES OF ANIMAL PROTEIN AND 225 SAMPLES OF OTHER FEED INGREDIENTS. (ANIMAL PROTEIN AND OTHER FEED WAS NOT SE POSITIVE) ALTHOUGH 65% AND 9% OF THESE, RESPECTIVELY, WERE SALMONELLA-POSITIVE. SALMONELLA ENTERITIDIS POSITIVE MICE WERE FOUND ON NEGATIVE AND POSITIVE PREMISES. (LOCAL MOUSE POPULATIONS WERE SE POSITIVE. THIS HAS BEEN PREVIOUSLY REPORTED IN THE LITERATURE FOR MANY YEARS. LOOKS AS IF THE SE COULD HAVE BEEN TRANSMITTING FROM THE MICE TO THE CHICKENS AND NOT THE OTHER WAY AROUND.)

(THE PRECEDING ARTICLE WAS PRESENTED BY DAVID C. KRADEL, DONALD L. SINGETARY AND WILSON L. MILLER).

RAW BEANS AND MBM SAVE \$70 PER WEEK

USING SOME OF THE RAW SOYBEANS YOU HARVESTED THIS FALL COULD SAVE YOU \$70 PER WEEK FOR A 100-COW HERD, ACCORDING TO AN EXAMPLE DESIGNED BY RANDY SHAVER, UNIVERSITY OF WISCONSIN DAIRY SPECIALIST.

THE EXAMPLE RATION IS BALANCED FOR COWS 100 DAYS IN MILK (PERHAPS ONE-HALF OF A 100-COW HERD), YIELDING 95 POUNDS OF 3.7 PERCENT BUTTERFAT MILK. INSTEAD OF 5.9 POUNDS OF ROASTED SOYBEANS, THE RATION SUBSTITUTES 4.5 POUNDS OF RAW SOYBEANS, 2.3 POUNDS OF MEAT AND BONE MEAL, AND 0.4 POUNDS OF TALLOW. THE NUTRIENT DENSITIES OF THE TWO RATIONS, ESPECIALLY UIP OR BY-PASS PROTEIN, ARE COMPARABLE. THE RATION CONTAINING RAW SOYBEANS COSTS 21 CENTS LESS PER COW PER DAY THAN THE DIET WITH ROASTED BEANS, IF THE RAW BEAN PRICE IS \$185 PER TON AND ROASTED BEANS COST \$260 PER TON.

DON'T PULL BACK ON ENERGY AND PROTEIN IN RATIONS WHEN FEED COSTS RISE, SAYS SHAVER, OR YOU MAY LOSE MONEY THROUGH LOST PRODUCTION. INSTEAD, HOLD RATION COSTS LOW BY EVALUATING THE BREAKEVEN PRICES OF DIFFERENT COMMODITIES THAT PROVIDE BYPASS PROTEIN FOR HIGH-PRODUCING, EARLY-LACTATION COWS, HE SUGGESTS. "ROASTED BEANS AND BLOOD MEAL DON'T PENCIL AT ALL FOR LATE LACTATION COWS. PRODUCERS NEED TO FIGURE THEIR PER COW PER DAY FEEDING COSTS," HE ADDS.

ROASTED SOYBEANS VS. RAW SOYBEANS

	ROASTED BEANS	RAW BEANS & MBM
DMI (LB./DAY)	54.4	54.4
CP% (CRUDE PROTEIN)	18.5	18.5
UIP-CP% (BY-PASS PROTEIN)	36.0	37.0
UIP ADEQUACY (LB./DAY)	96.0	99.0
SUPPLEMENTAL FAT (LB./DAY)	1.2	1.2
COST/COW/DAY	\$3.73	\$3.52

SOURCE: UNIVERSITY OF WISCONSIN

