Stall Barn Management Factors

stall barn continues to be fa- e.ch day voicd by Pennsylvania dairymen who operate family sized farms. officials

Therefore, investigations con. period for visible hock injuries. the Dany Production Center

mats

However, other factors in mats. volved in managing today's dairy The degree of hock injury was areas of rubber mats. cattle can reduce, or even eli-most noticeable under the followminate, the advantage of savings ing conditions: (1) when large bowls and urine accumulation of barn. in bedding when health and san- amounts of bedding were applied cattle housed in improperly aditation problems are increased to rubber mats; (2) where un-justed stalls also helped to ag-Several of these management even distribution of bedding gravate hock inflammations. factors were investigated in caused accumulations to occur in studies conducted during the past the forward portions of stalls; conducted during two winter three years under winter housing (3) when even small quantities housing seasons to compare gut-

indicate that management prac-bedding conditions existed Setices hold the key to stall bain verity of hock injury was great-rubber mats.

In spite of the increase in free bedding economics, rather thanest with the larger breeds. Hol- groups was related to two man- open gutters in these same unstall housing, the conventional the amount of bedding provided stein and Brown Swiss

Experiment Conducted

Lactating cows housed in 160 um particle sawdust was used in to prevent leakage and spillage cases of foot rot developed over according to Penn State dany individual stalls were checked combination with good stall man- problems, rather than to the two year study period in the weekly over a 10-week study agement conditions

ranged from 1.6 pounds per cow in gutter grate equipped groups to 234 pounds per cow in open gutter groups Up to 44.5 per cent of the sawdust was applied directly to open gutters for management purposes in the latter

Adjust Water Bowl

Coarse sawdust particles, hard- per cow. coined with the best method of Five breeds of dairy cattle were wood chips, and hardwood shavusing bedding and rubber mats observed under various stall and ings exhibited a tendency to roll problem in low bedding groups in stalls have been continued at bedding management conditions, on smooth surfaces during nor- where manufe accumulations ex-Several hardwood products - mal up and down movements of isted on grates. Over the past 10 years, bedding chips, shavings, coarse and me-cows. This rolling effect caused Gutter Grates-Fewer Problems during the second year. requirements have been reduced dium particle sawdust - were abrasive action to hock areas to one-half, or less, by the instal- used for bedding. Approximately When the cows were lying down, cows were treated for hock in- jury were directly attributed to lation of commercial rubber one-half of the stalls were equip- coarse hardwood shavings and jury, three contracted foot rot wet stall conditions where moisped with commercial rubber chips often caused skin punc- problems, and three cows sus- ture accumulations were a con-

Bedding economy studies were of hardwood chips or shavings ter grates versus open gutters in Observations in recent studies were used; and (4) where wet two 40 cow stall barns

All stalls were equipped with

Daily bedding applications

Several interesting, and simi-

Cleanliness of cows in all

agement factors-adjustment of Limited bodding groups Incidence of visible book in stall facilities to individual cows jury was negligible where medi- and adjustment of water bowls juries were reported and no new

Staining of cows was also a gutter grates.

During the first year eight tures due to the high ridged tained severe udder injuries stant management problem. from jumping gutters when en-

juries resulted from jumping ing.

In comparison, no udder inamounts of bedding applied daily low or restricted bedding groups where stalls were equipped with

> Hock injury treatments were reported for three cows during the first year and four cows

> These latter cases of hock in-

These findings were reported Moisture from leaking water tering stalls in the open gutter earlier this year by A E Branding. Research Assistant in Dairy During the second year's study Science; W H. Cloninger, Astwelve cows developed hock in sociate Professor of Dairy Projuries, three cases of foot rot duction; and H. D. Bartlett, Prewere treated, and four udder in fessor of Agricultural Engineer-

Sundaes, a Good Way To Go With Ice Cream

Americans invented the sun- cup peanutbutter in small mixing

to top icecieam

Three tempting examples are ing Yield 1½ cups Pi aline Sauce—iich as the famed Southern candy, fluffy Marshmallow Sauce, and that old smoothie, peanut buttei in a saucy new guise

Stir one up next time you serve ice cream

Praline Sauce: In a 1-quart saucepan melt ¼ cup (½ stick) butter add 34 cup broken pecans and saute until lightly toasted Add 1/2 cup firmly packed light brown sugar and 2 tablespoons light coin sylup, cook over medium heat, stirring constantly, until mixture boils and sugar is melted Gradually add ½ cup evaporated milk Remove from heat, blend in ½ teaspoon vanilla Yield 11/4 cups

Marshmallow Sauce: In 11/2quait saucepan combine ½ cup sugar, ¼ cup water and ¼ cup light coin syrup Bing to boil, 1educe heat and simmer 5 minutes Remove from heat, add 1 cup miniature marshmallows and stil until melted In small mixing bowl beat 2 egg whites until soft peaks form Continue to beat gradually adding while syrup Cover and chill If sauce separates, mix until smooth Yield 21/2 cups

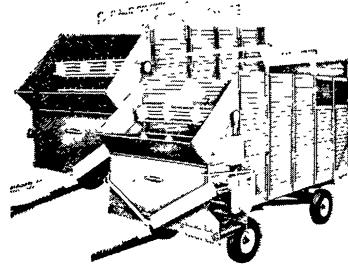
For Marshmallow Mint Sauce After adding syrup to egg whites, blend in 1/2 teaspoon peppermint extract and a few drops of green food coloring to tint pale green

Peanut Butter Ice Cream Sauce: In 1 quart saucepan combine 1 cup sugai ½ cup water and 2, cup light coin syrup, bring to boil and cook over low heat until 220 F on candy thei mometer Remove from heat or candy the mometer Place 1/4 cool without stirring to 100 F

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bowl, gradually add syrup while And Yankee ingenuity is still beating at medium speed If lai, patterns of observation were at work devising luscious ways sauce is refrigerated, warm to disclosed during the two-year room temperature before serv- study



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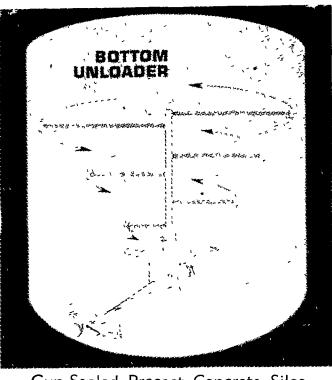
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