



# CFR

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## ***CURD WASH RECOVERY***



### ***APPLICATIONS***

Curd washing is required if cottage cheese is to meet the standards that consumers have come to expect. However, curd washing also results in a large volume of low solids, high BOD water that presents disposal problems.

- ✓ Curd wash contains 0.1-0.2 lbs. BOD/gallon of water.
- ✓ Curd wash is low solids - typically 0.5 to 1.5% TS.
- ✓ Cottage Cheese produces high volumes of curd wash.

Sending curd wash water for treatment or to city sewers results in either high treatment costs or high sewer charges due to its high BOD.

Curd wash recovery on the other hand provides

- ✓ A high solids concentrate which can often be sold.
- ✓ A large volume of high quality water which may be reused in the plant.

*CFR can design, fabricate, and install your membrane filtration process. CFR also provides controls, programming, full start up assistance, and training. You can rely on CFR to stand behind every system that we put in. Even more, you can rely on CFR to provide full after-start up service and support if problems occur or if system modification or expansion is desired..*



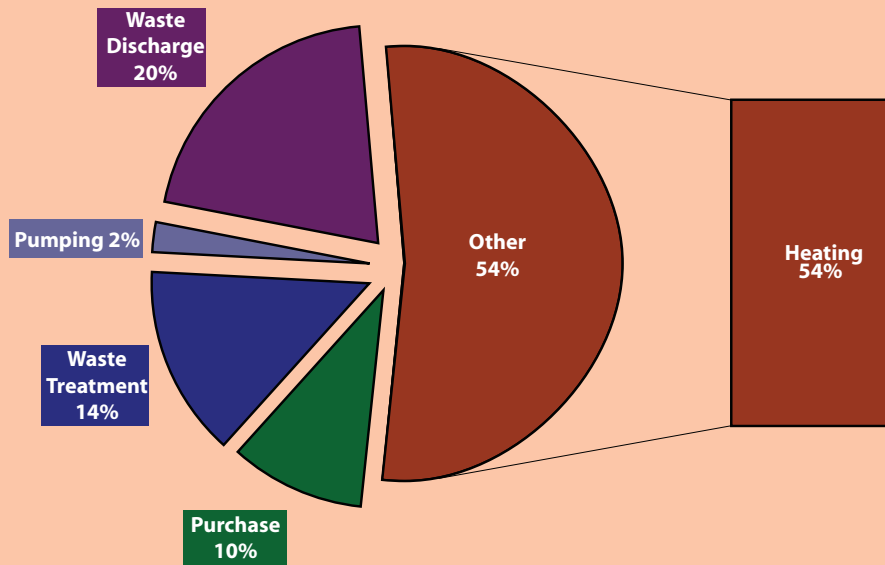
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# CURD WASH RECOVERY

WATER TREATMENT COSTS - LOW STRENGTH



TYPICAL WATER COST DISTRIBUTION FOR A FOOD PLANT — THE ACTUAL COST OF THE WATER REPRESENTS ONLY ABOUT 10% OF ITS TRUE COST.

NOT INCLUDED ARE POSSIBLE ADDITIONAL COSTS SUCH AS CHEMICAL TREATMENT, NEUTRALIZATION, COOLING PRIOR TO DISCHARGE,

## Product Recovery from Wash Waters

Curd wash water is only one type of wash water that can be recovered and turned into a useful product. There are other types of wash waters which may be recovered.

- ✓ Product rinses from lines.
- ✓ Milk tanker rinse waters.
- ✓ Curd washes from cheddar or other cheeses.
- ✓ Yoghurt rinse waters.

All of the above may be combined with cottage cheese curd wash water prior to processing to increase the usefulness of wash water recovery systems.

Many processors have discovered that dilute waste streams can be turned into products which pay their own way. In many cases the solution to pollution is not dilution but concentration. Concentration results in products that may be sold or mixed and blended with other products. The net swing from expensive disposal costs to product sales often represents the best way to build efficiency into a process.

## REDUCING THE WATER REACHING TREATMENT

*Reduces the load on the treatment plant*

*Reduces treatment and discharge costs*

*Reduces water charges*

*Reduces water treatment costs*

*Reduces heating and cooling costs*

*May lead to revenue from by-products*