

Memorandum

Date: September 1, 2005
From: John Sheehan
To: File
Reference: Summary of October 2003 Conversations with
Industry Sources on UF Milk Production Costs

UF Equipment and Set-up Costs

Immediately below (highlighted in green) is cost information for a single pass UF and is for a LARGE plant. 300,000 lbs/day is about 30,000 gallons per day, or five full road tankers. Such farms would be massive and have close to 4000 cows (at 8 gallons/cow/day)

Note the costs of a recirc.system for about 100 cows - approx. \$175,000.

The smallest system sold was 300,000 pounds per day.

[REDACTED]

Estimated operating cost of \$800,000.00 annually

Recirculating UF membrane system cost @ 300,000# per day (equipment alone) is \$350,000.00 +/- about 10%

Below is the flow based on 800 gallons per day.

Recirculating UF system for 6800# of Milk per day (based on 100 cows) would be the size of one Model U Pilot systems: \$175,000.00 +/- 10%

Single pass system would easily require twice the membrane area and would require a pump for each membrane vessel to maintain crossflow. At minimum a single pass system for this volume would be at least double the cost. \$350,000.00