

Chlor Alkali Monthly Plan Data

| | | | | |
|-------------------------------|----|---|---|----|
| Maximum Daily Railcar Loading | 15 | 9 | 5 | 29 |
|-------------------------------|----|---|---|----|

| Average Daily Number of Railcar Loads by Month | | Caustic | HCl | Chlorine | Total | % |
|--|-----|---------|-----|----------|-------|------|
| 2017 | Jan | 12 | 9 | 4 | 25 | 86% |
| | Feb | 11 | 7 | 4 | 22 | 76% |
| | Mar | 12 | 9 | 5 | 26 | 90% |
| | Apr | 11 | 7 | 4 | 22 | 76% |
| | May | 15 | 9 | 5 | 29 | 100% |
| | Jun | 15 | 9 | 4 | 28 | 97% |
| | Jul | 14 | 9 | 4 | 27 | 93% |
| | Aug | 14 | 9 | 4 | 27 | 93% |
| | Sep | 13 | 9 | 5 | 27 | 93% |

| 2017 Average Production (MECU) | | 537 | |
|--------------------------------|----------|--------------------------|---------|
| Daily Avg MECUs | % of Max | Production Loss in MECUs | Comment |
| 501 | 80% | 3782 | |
| 470 | 75% | 4284 | |
| 575 | 92% | 1488 | |
| 520 | 83% | 3090 | |
| 621 | 100% | 62 | |
| 615 | 99% | 240 | |
| 574 | 92% | 1519 | |
| 586 | 94% | 1147 | |
| 614 | 99% | 270 | |

| | | | | | | |
|------|-----|----|---|---|----|-----|
| 2017 | OCT | 11 | 5 | 4 | 20 | 69% |
| * | NOV | 11 | 5 | 4 | 20 | 69% |
| | DEC | 9 | 5 | 3 | 17 | 59% |
| 2018 | JAN | 14 | 6 | 5 | 25 | 86% |

| | | | |
|-----|-----|-------|--|
| 535 | 86% | 2728 | |
| 261 | 42% | 10860 | |
| 570 | 91% | 1643 | |
| 494 | 79% | 3999 | |

Unplanned plant outage = 16 days, not included in loss

Total 4 month period: 8370 lost production Oct. to Jan.

* less Plant failure

| Daily Number of Railcar Loads | | Caustic | HCl | Chlorine | Total | % Of Max Loading 29 Cars |
|-------------------------------|-----|---------|-----|----------|-------|--------------------------|
| 2018 | Jan | 14 | 6 | 5 | 25 | 86% |
| | Feb | 12 | 9 | 3 | 24 | 83% |
| | Mar | 11 | 9 | 4 | 24 | 83% |
| | Apr | 6 | 4 | 2 | 12 | 41% |
| | May | 13 | 8 | 4 | 25 | 86% |
| | Jun | 14 | 9 | 4 | 27 | 93% |
| | Jul | 14 | 9 | 4 | 27 | 93% |
| | Aug | 14 | 9 | 4 | 27 | 93% |
| | Sep | 14 | 9 | 4 | 27 | 93% |

| 2018 Average Production (MECU) | | 505 | |
|--------------------------------|----------|------------------------------|---------|
| Daily Avg MECU | % of Max | Lost Production from Maximum | Comment |
| 494 | 79% | 3999 | |
| 469 | 75% | 4312 | |
| 468 | 75% | 4805 | |
| 358 | 57% | 7950 | |
| 555 | 89% | 2108 | |
| 574 | 92% | 1470 | |
| 554 | 89% | 2139 | |
| 539 | 87% | 2604 | |
| 585 | 94% | 1140 | |

Planned plant outage 18 days

| | | | | | | |
|------|-----|----|---|---|----|-----|
| 2018 | OCT | 14 | 9 | 4 | 27 | 93% |
| | NOV | 13 | 9 | 3 | 25 | 86% |
| | DEC | 12 | 9 | 3 | 24 | 83% |
| 2019 | JAN | 13 | 8 | 3 | 24 | 83% |

| | | | |
|-----|-----|------|--|
| 542 | 87% | 2511 | |
| 513 | 82% | 3300 | |
| 405 | 65% | 6758 | |
| 461 | 74% | 5022 | |

Total 4 month period: 17591 lost production Oct. to Jan.

- Daily MECU Production Maximum = **623** MECUs
- Metro Electrical Chemical Unit = Chlorine gas molecule
- MECU is a standard unit of measure for chloralkali manufacturing process
- Each MECU unit is worth approximately \$1,500.00 revenue per MECU