

Roofing Shingles in HMA

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Plant Issues

- ❖ Dwell time must be adequate to melt asphalt
- ❖ Mix temperature 310-315 F
- ❖ Production Range: 25-100 tph
- ❖ Drum cleaning
 - 2-3 times/yr (DB 4-6)
 - ~ \$1,000/cleaning

Shingle Economics

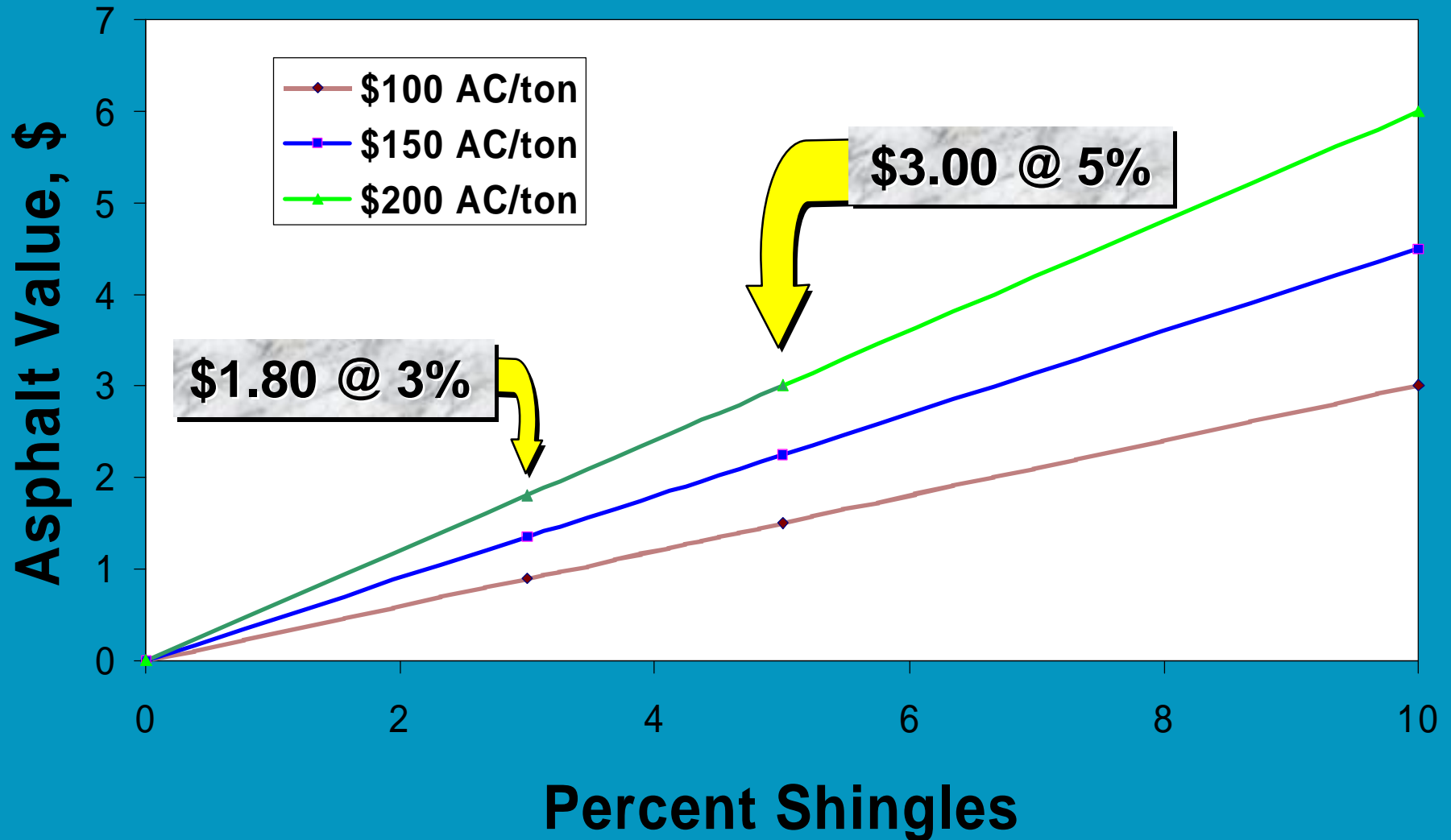
- ❖ **Shingle Processing Costs**
 - \$12 – 14/ton
 - @ 5% ~ \$0.70/ton of mix

- ❖ **Shredder Costs**
 - 35-40 TPH: \$200K
 - 100 TPH: \$450K

Shingle Economics

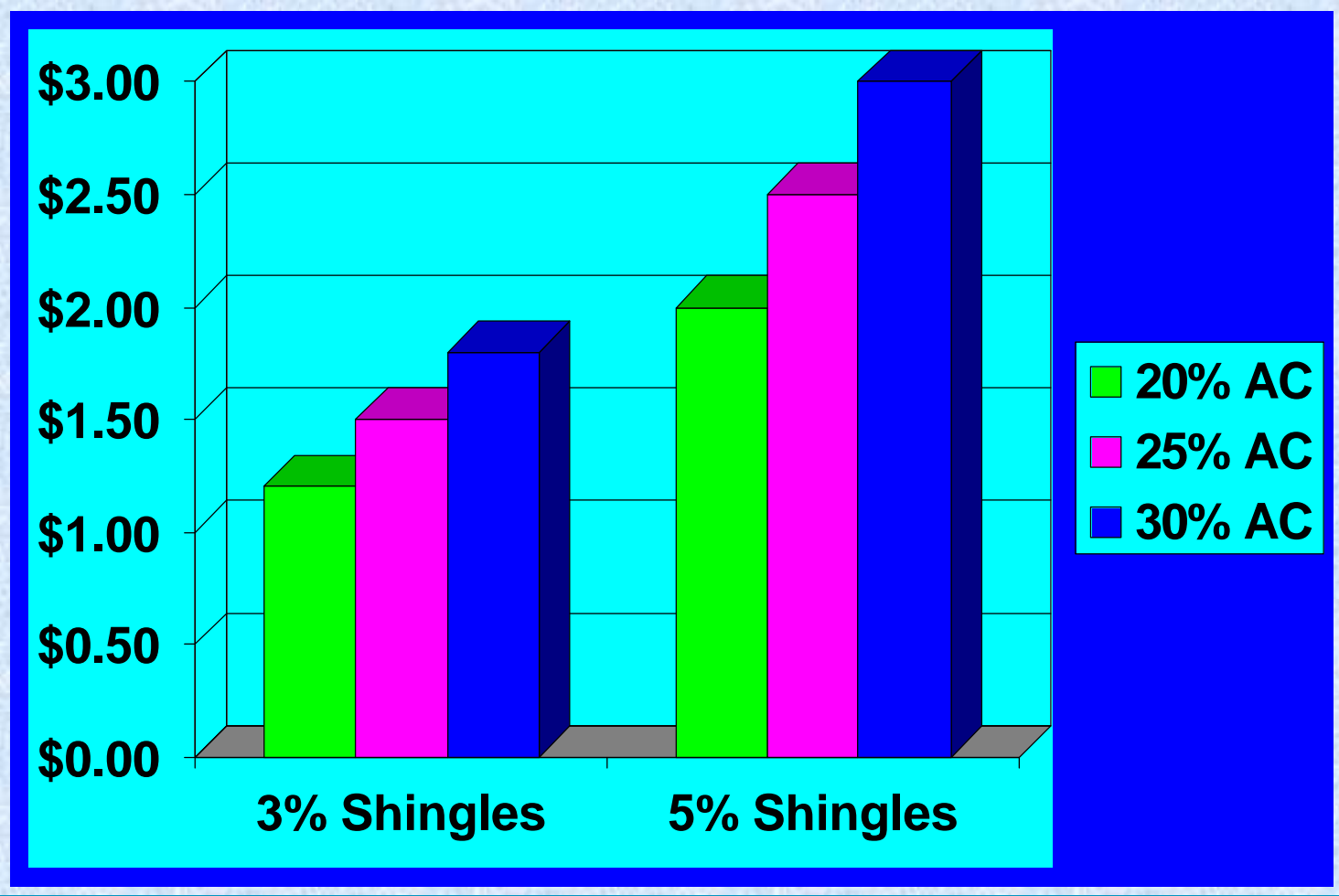
- ❖ **Typical tipping fees**
 - **Mfg Waste: \$15 to \$35/ton**
 - **Tear-offs: \$25 to \$45/ton**

Asphalt Value in Shingles (30% AC)



Asphalt Value in Shingles

AC = \$200/ton



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