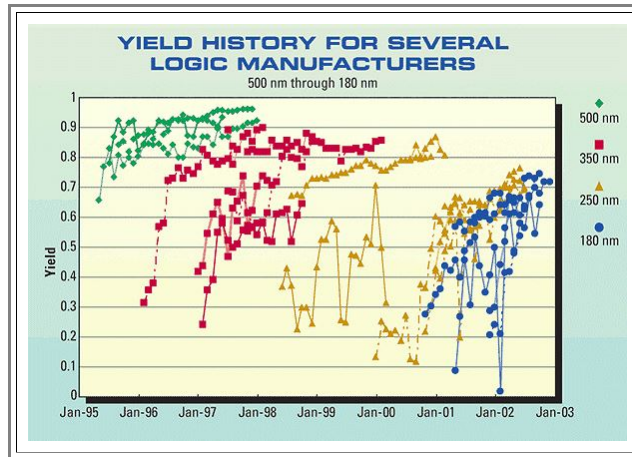


Yield Development

Illustration

- ▶ In the backbone part, there is a [hypothetical yield over time curve](#), and some far-reaching conclusions are drawn from it.
- What do *real* yield curves look like? Well, few people know, because that is one of the bigger company secrets.
- However, in **2003**, Leachman and Berglund, working for *Sematech* did a study and release some real (anonymous) data. Here is the interesting curve:



- ▶ The yield may go up somewhat faster than on the hypothetical curve, but several things are quit clear:
- Companies start production with yields as low as **(10 - 20) %**: In other words: Most of the chips produced go in the garbage bin!
- There is a lot frustration potential: For no recognizable reason your yield suddenly collapses substantially! (If the reason would have been recognizable, it would not have happened for more than a day or two and then not shown up on the monthly data given above!)
- It's rather difficult to have yields in excess of **80 %** - and it is getting worse.