

## Recycled newsprint on the press

1995

Recycled newsprint on the press. (1995). In Newsprint and Newsink Economy and Quality in the Face of Rising Prices : Workshop, Hong Kong 13-14 June 1995. Singapore: Asian Media Information & Communication Centre.

<https://hdl.handle.net/10356/86725>

**Recycled Newsprint On The Press**

Session 3:

## **Recycled newsprint on the press**

The results of an IFRA Forum  
(IFRA Special Report 1.10)



## Deinkability of different printed products

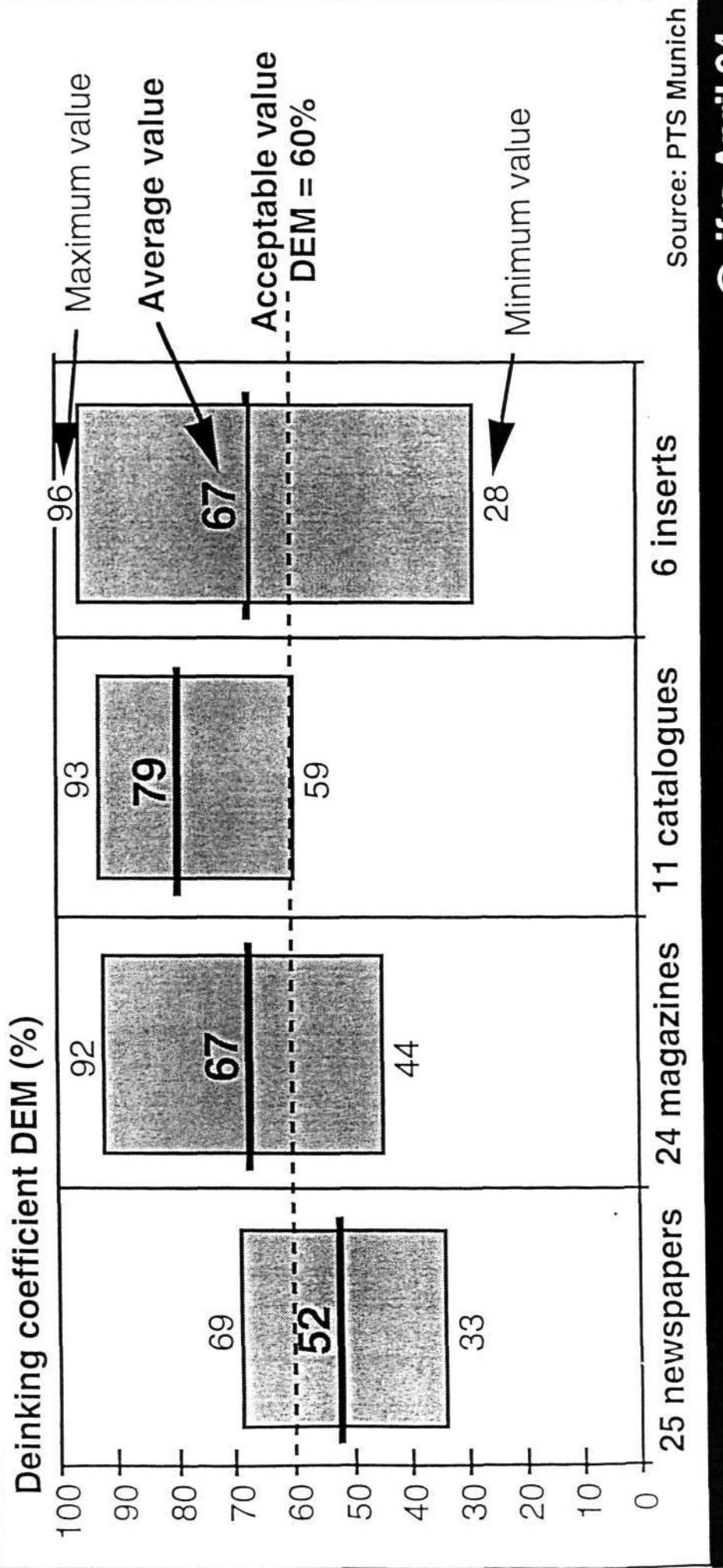
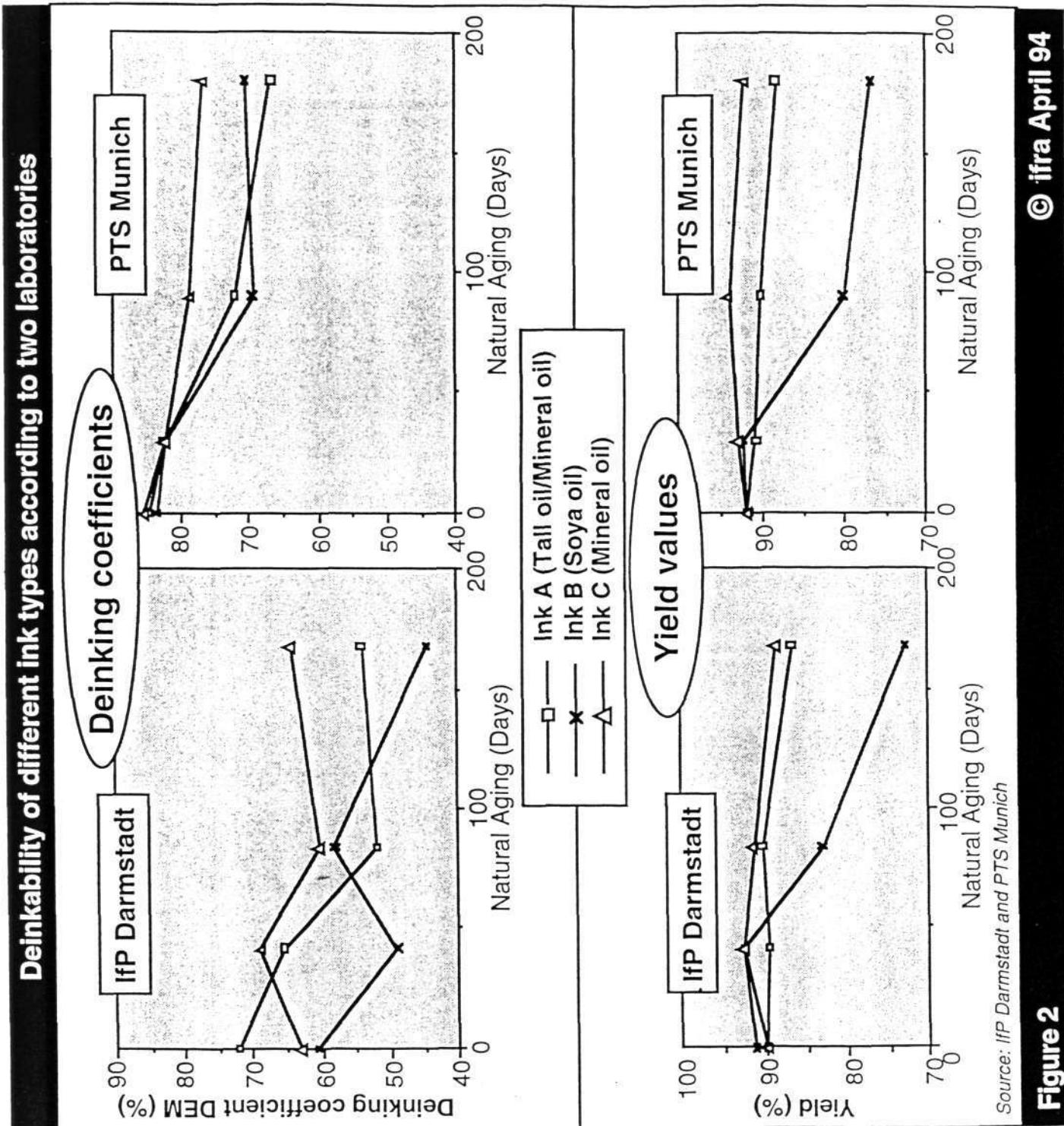


Figure 1

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Source: PTS Munich





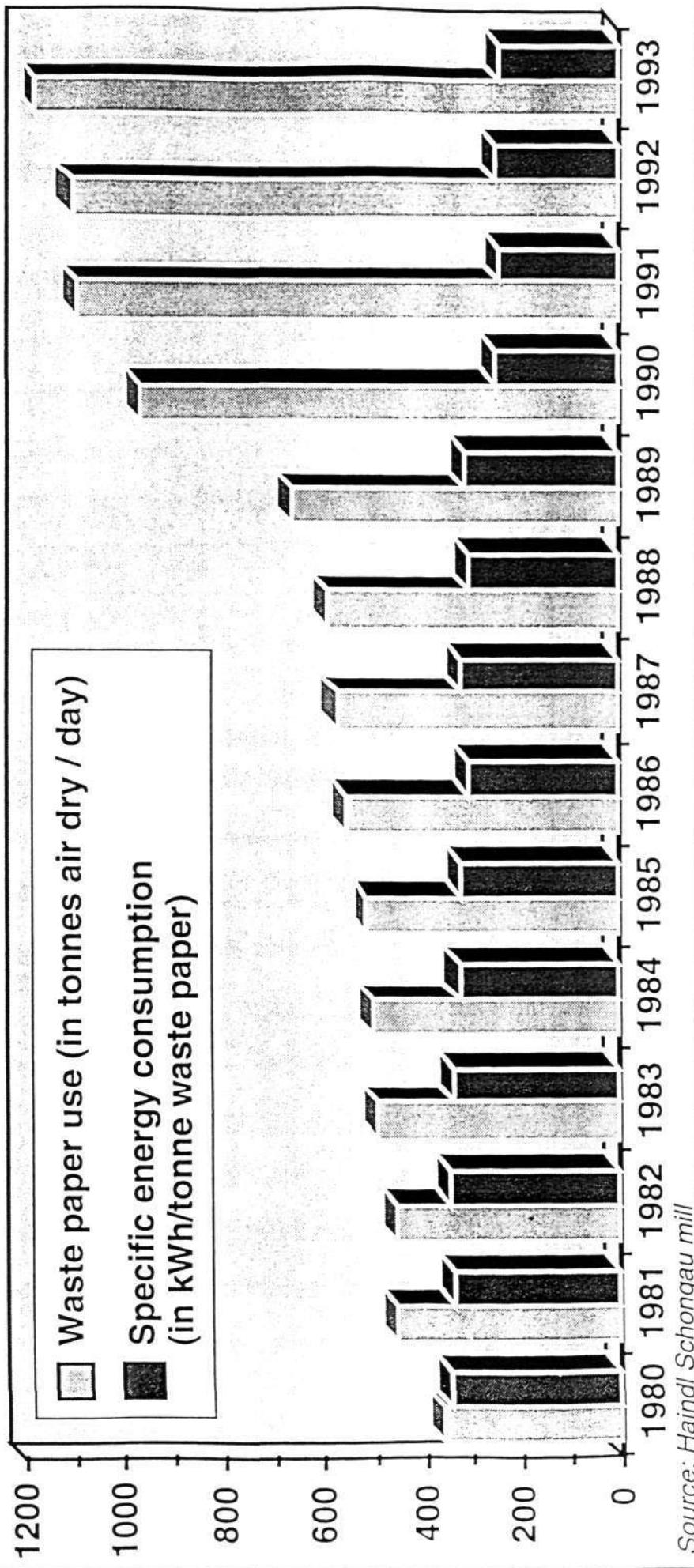
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Figure 2

Source: IfP Darmstadt and PTS Munich



### Specific energy consumption for the treatment of waste paper

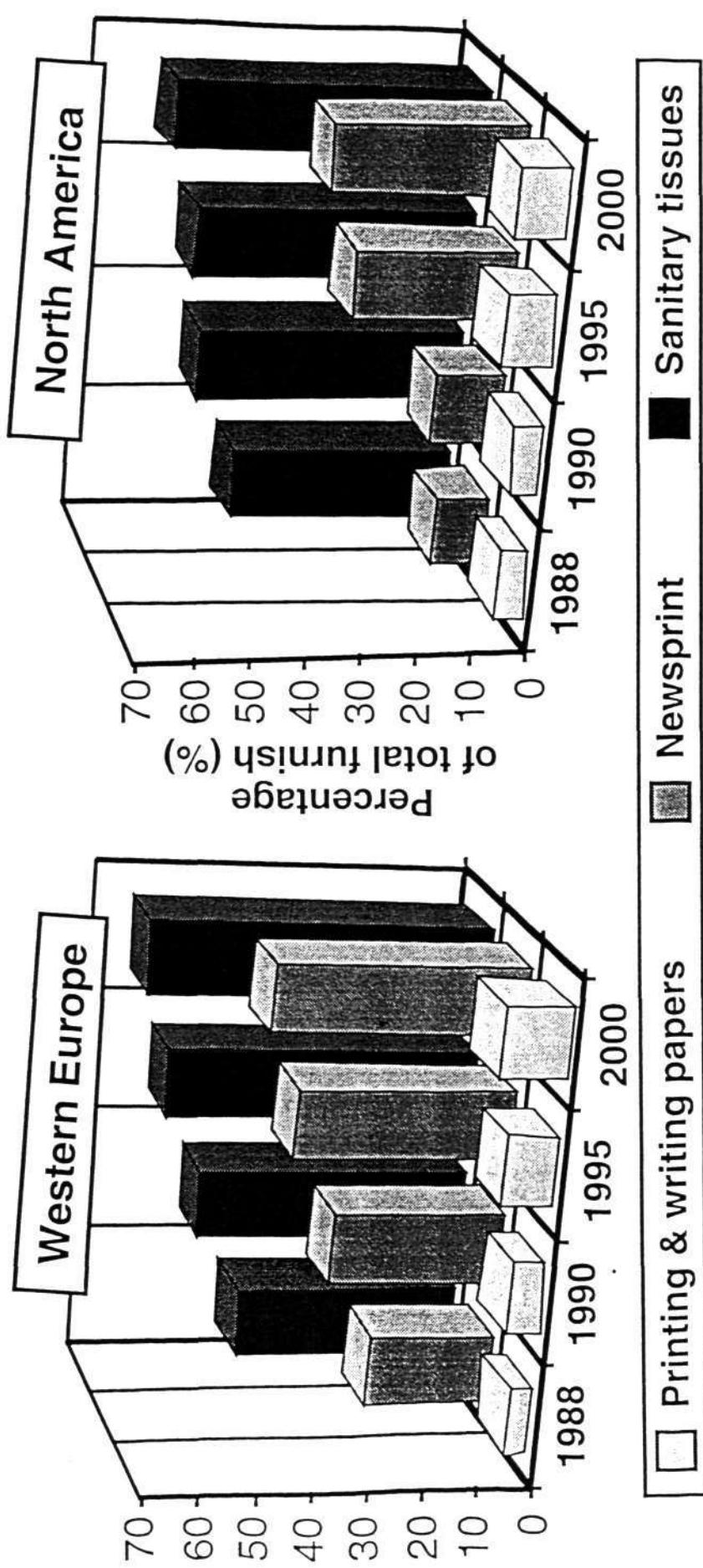


Source: Haindl Schonau mill

**Figure 3**

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## Estimated use of deinked pulp as a percentage of total furnish for the main grades

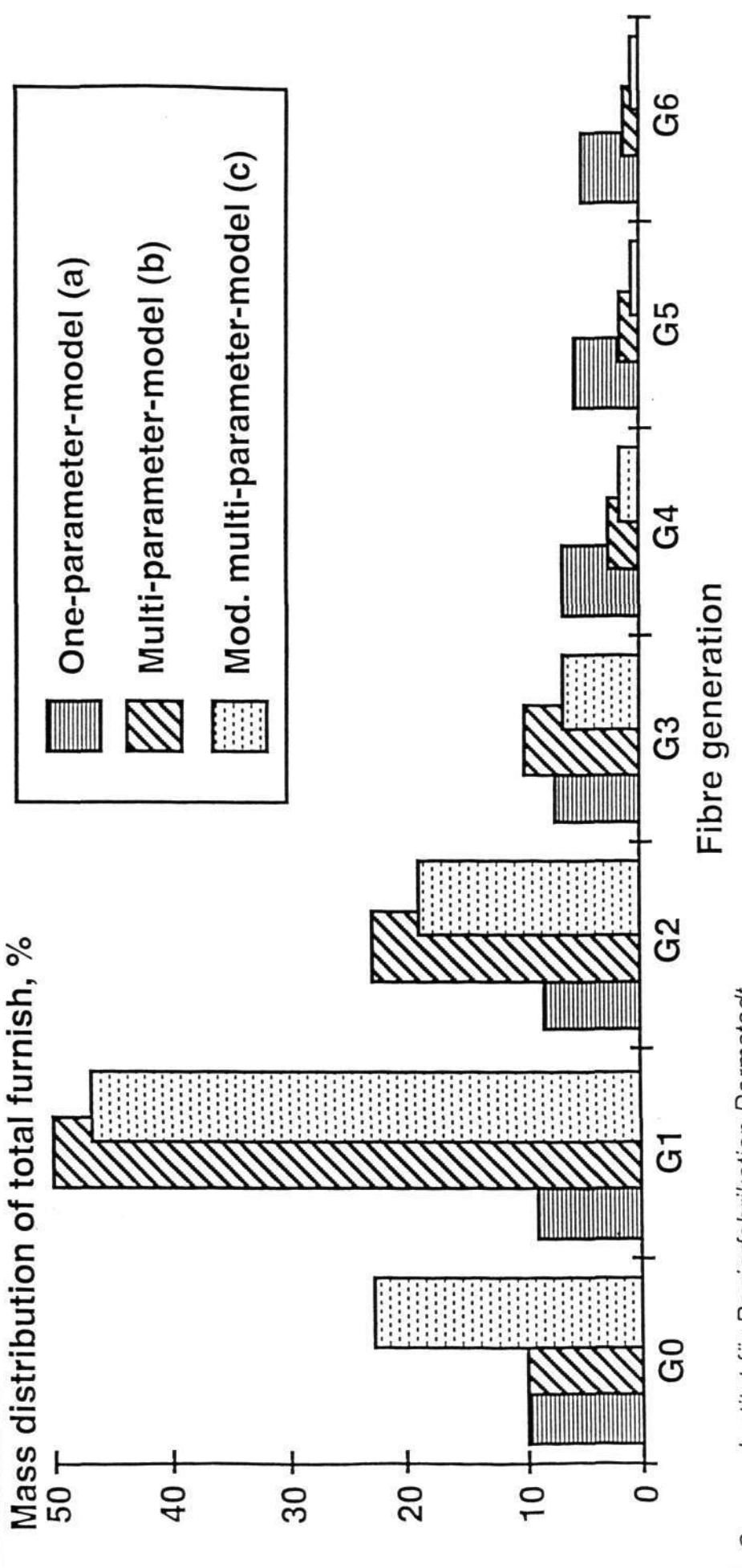


Source: Jaakko Pöyry

**Figure 4**

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## Age distribution of fibres for German newsprint (Scenario 2000)

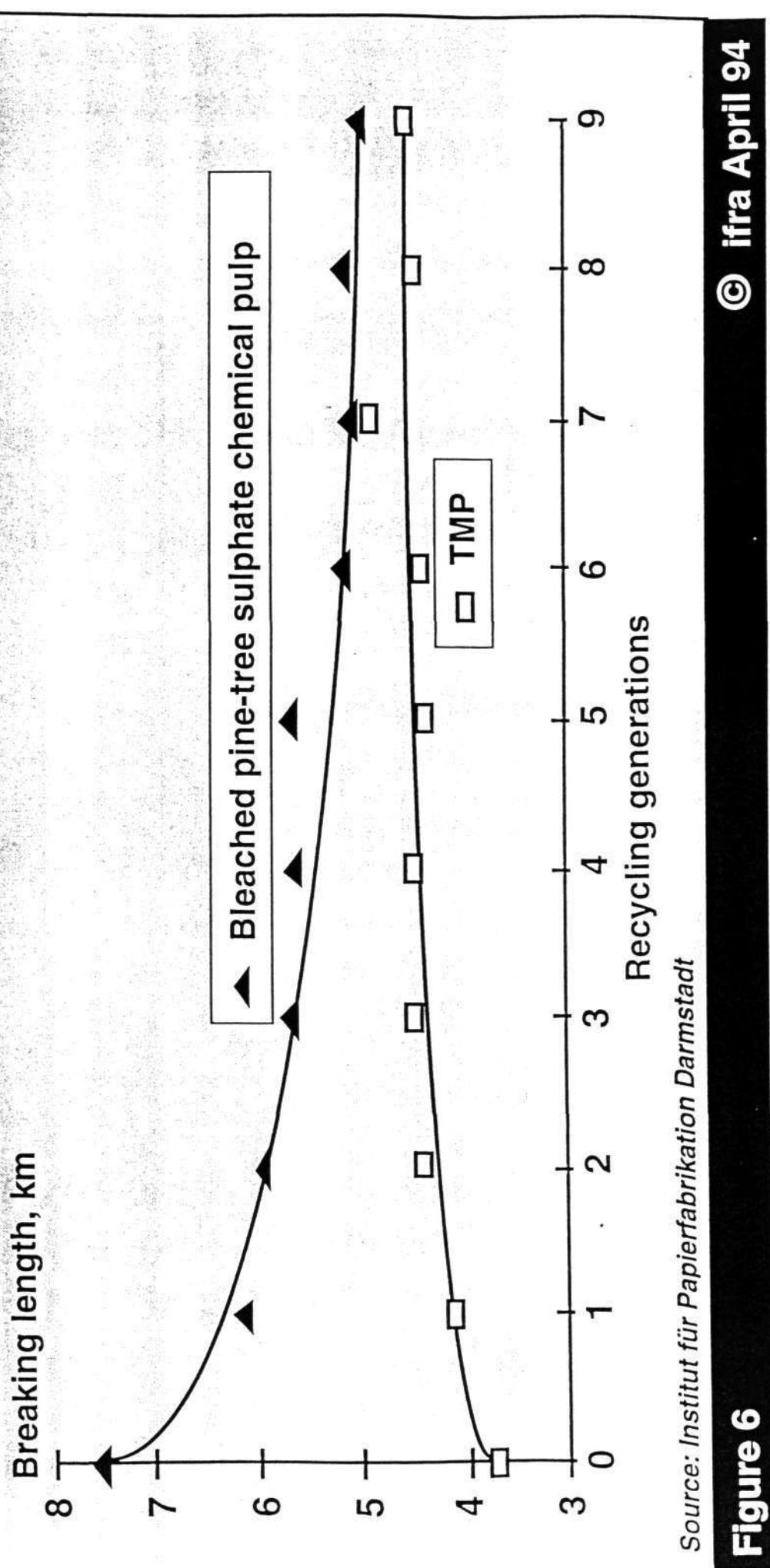


**Figure 5**

Source: Institut für Papierfabrikation Darmstadt

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## Laboratory simulation of recycling for two different types of pulps

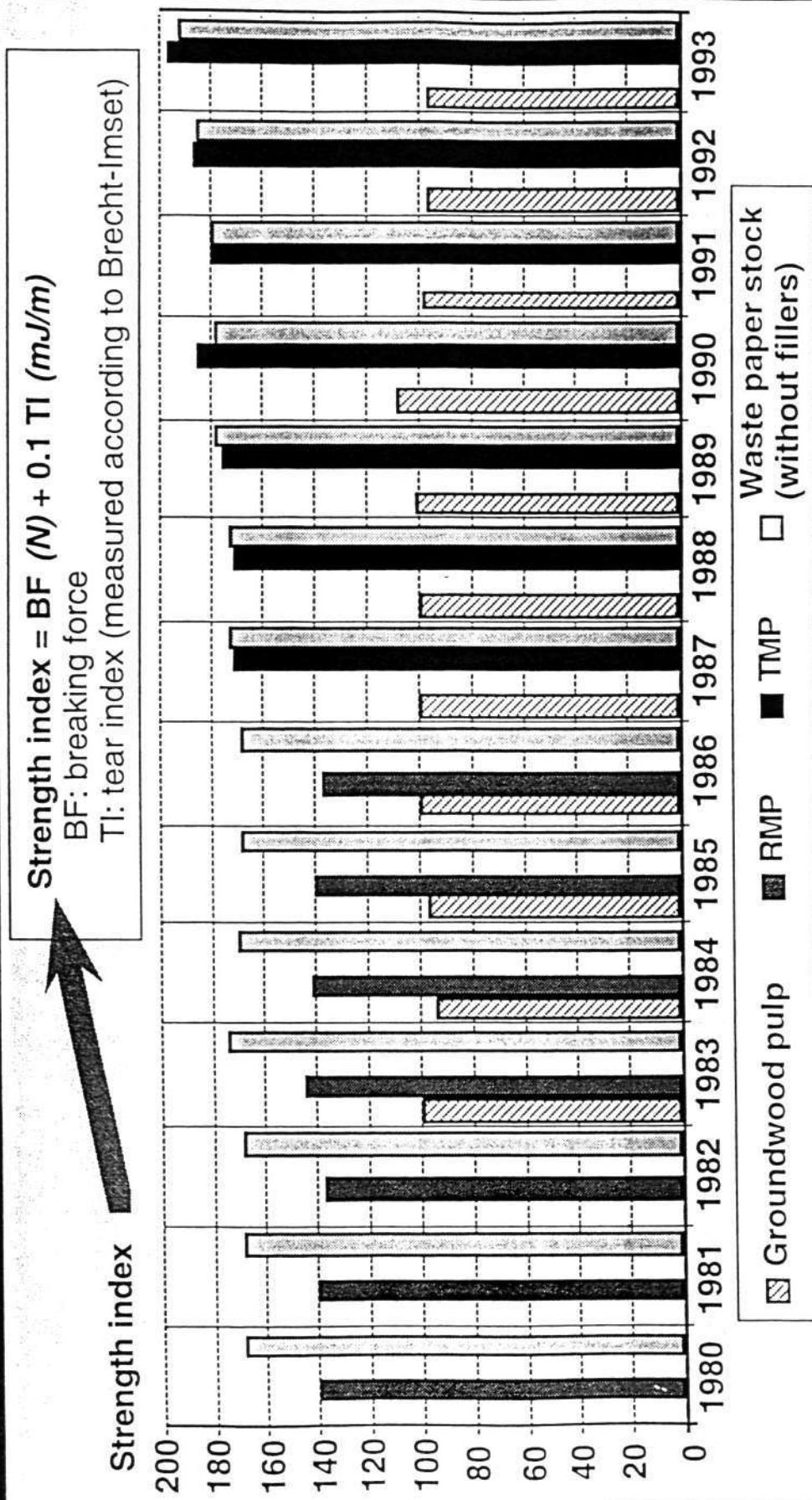


Source: Institut für Papierfabrikation Darmstadt

**Figure 6**

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## Development of the strength index of different pulps at the Haindl Schongau mill



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Figure 7

## Comparison of tension/stretch characteristics of different newsprints

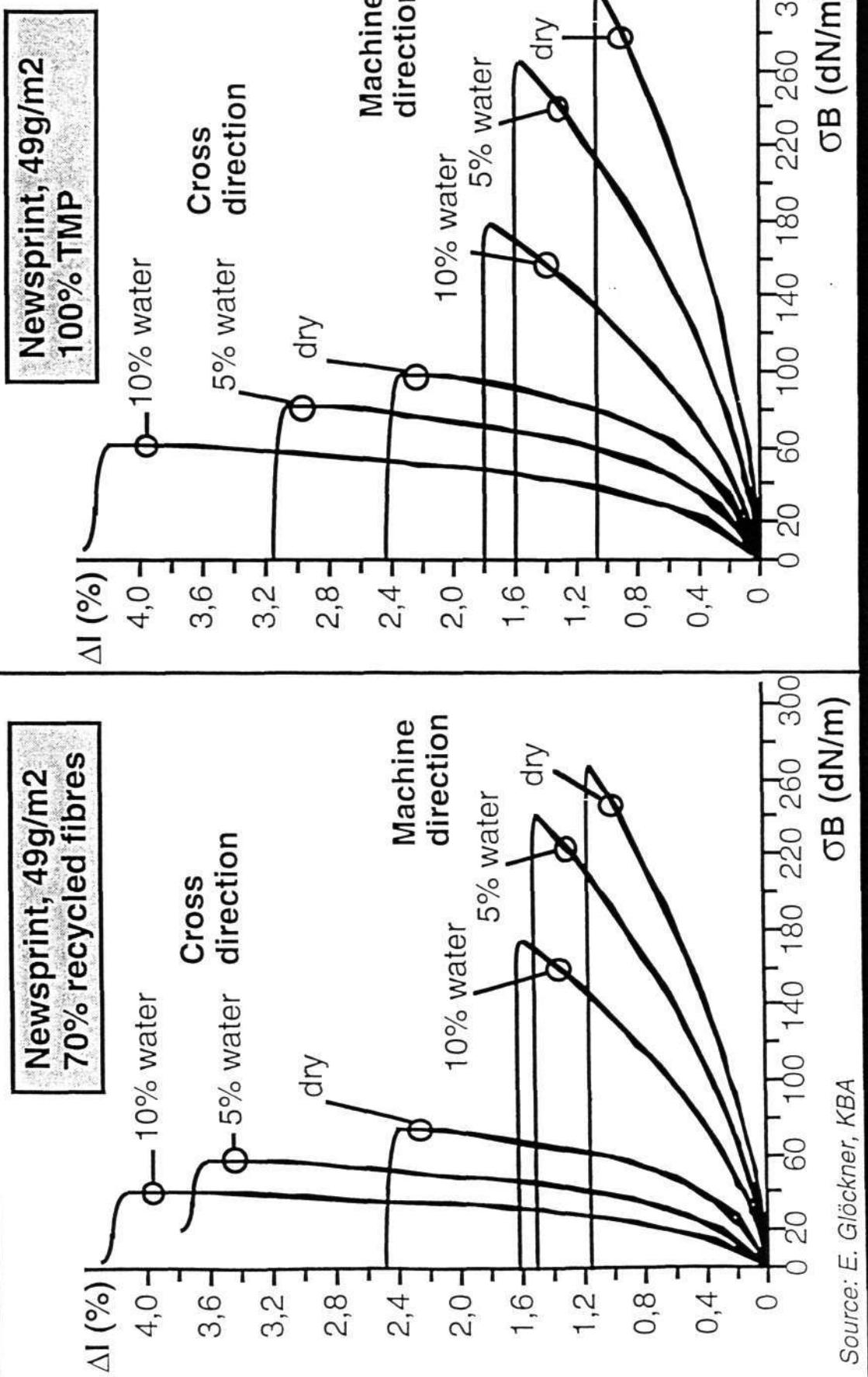
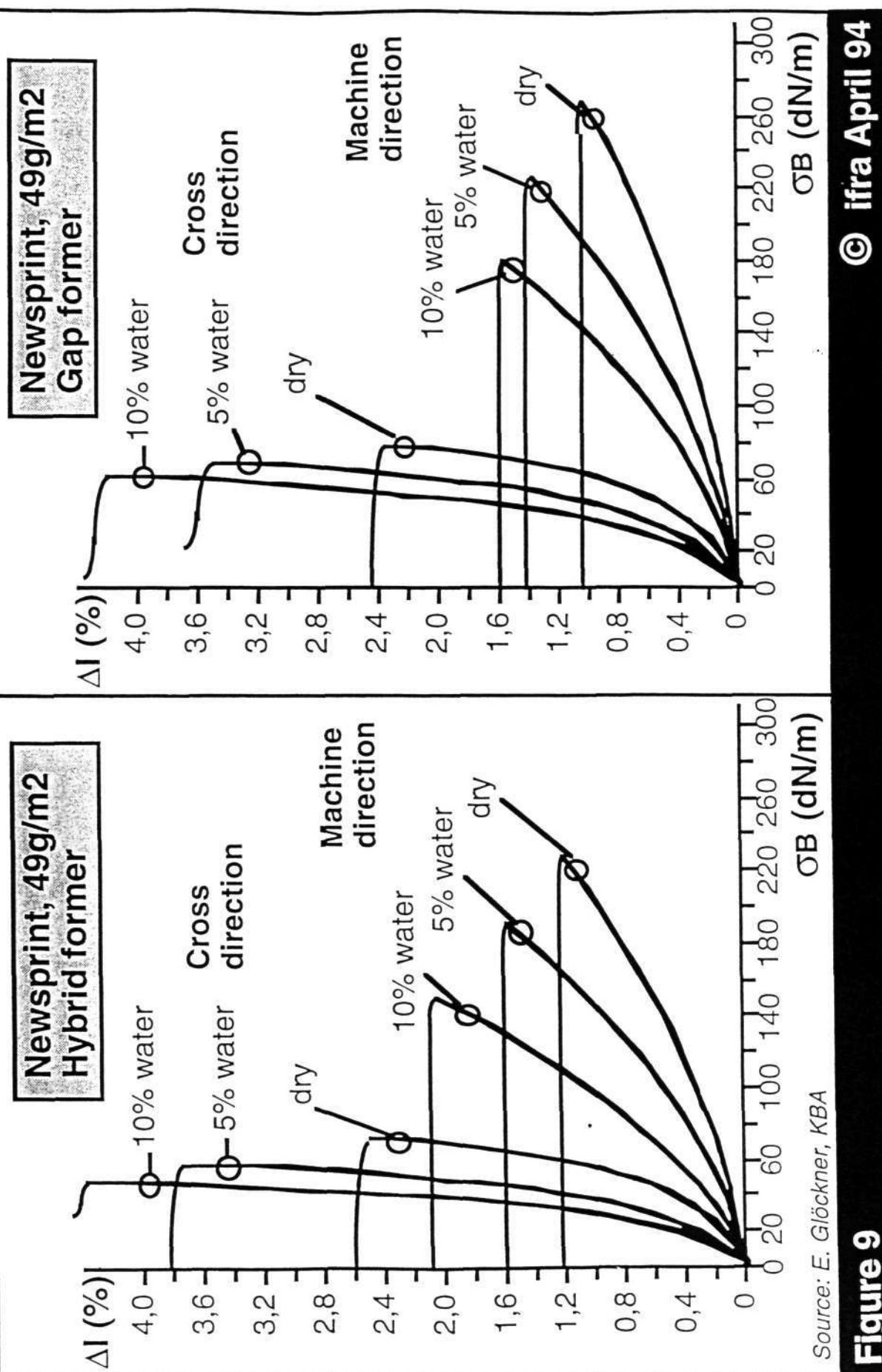


Figure 8

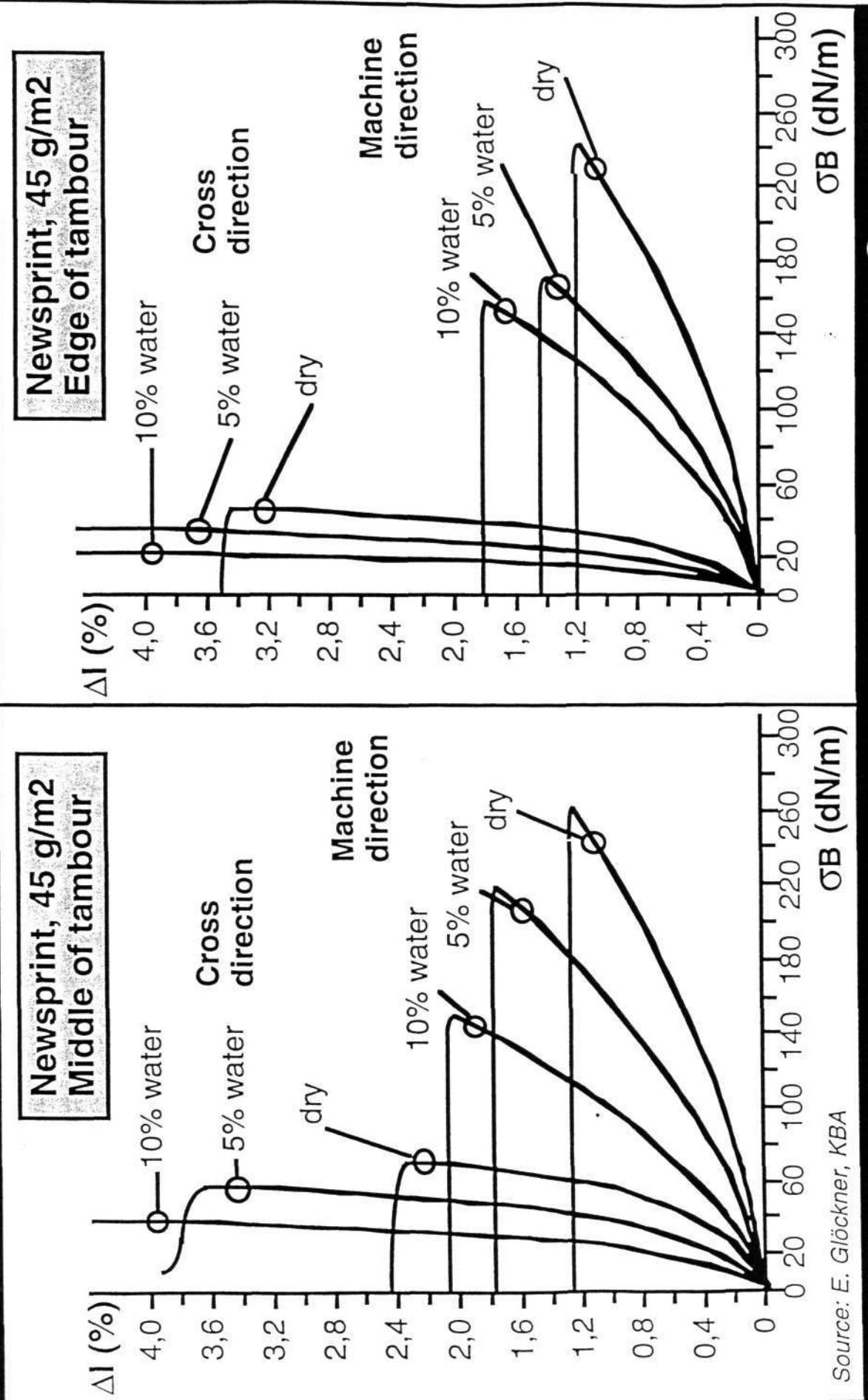
## Comparison of tension/stretch characteristics of different newsprints

**Figure 9**

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## Comparison of tension/stretch characteristics of different newsprints

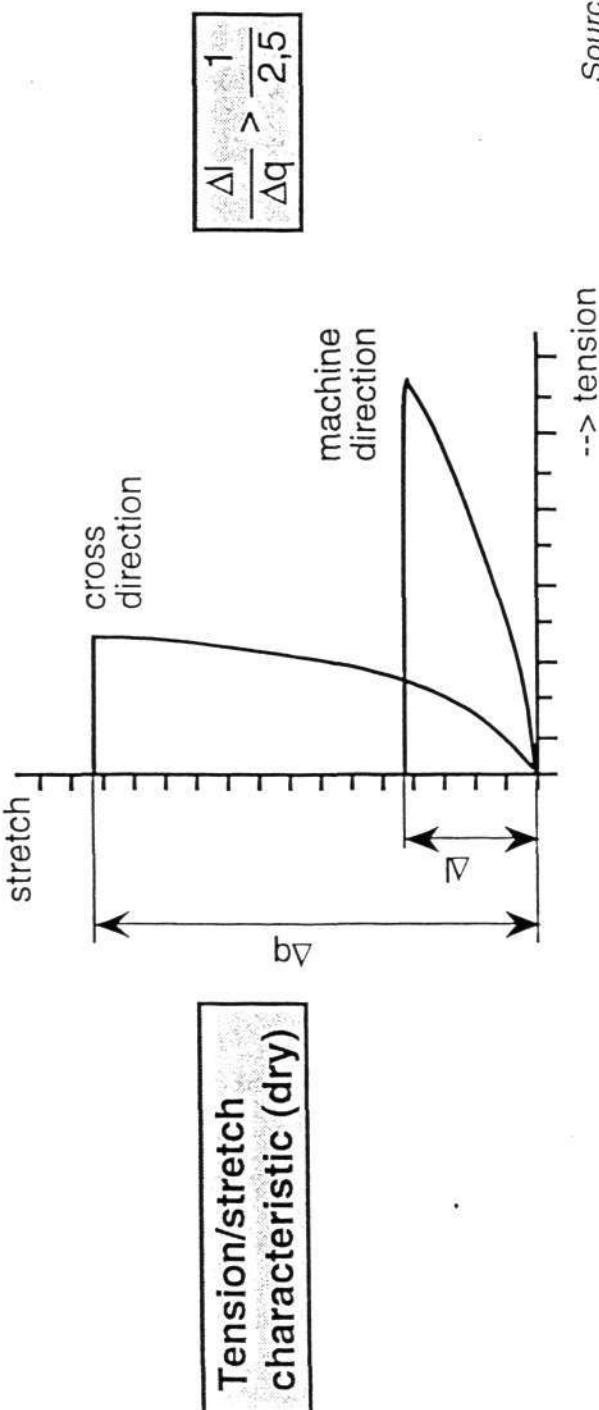


Source: E. Göckner, KBA

Figure 10

## Tension/stretch specification for offset newsprints according to E. Glöckner (KBA)

1. At approx. 25°C and 55% relative humidity, the tensile strength must be greater than 200 daN/m.
2. The ratio between longitudinal and cross tensile limits must be greater than 1:2.5.



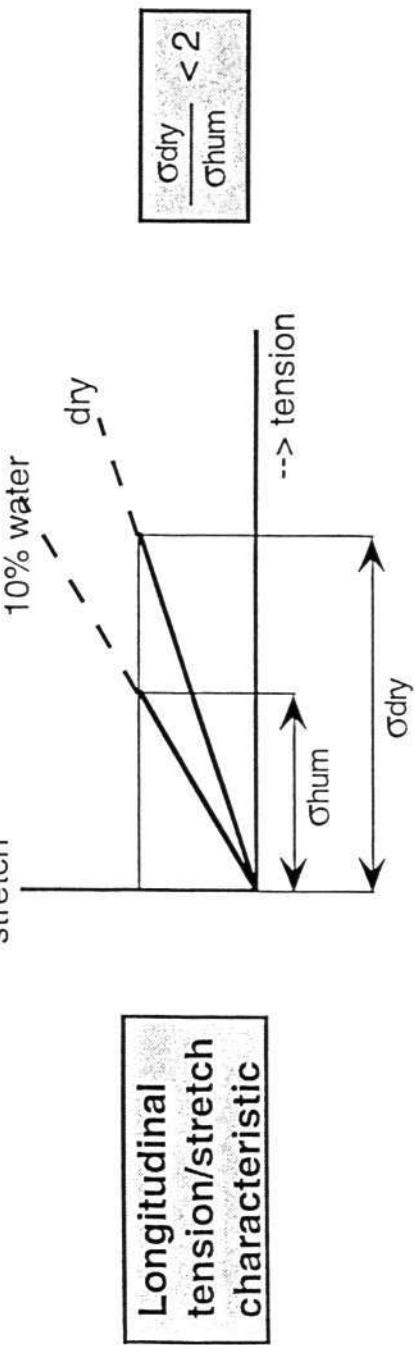
Source: E. Glöckner, KBA

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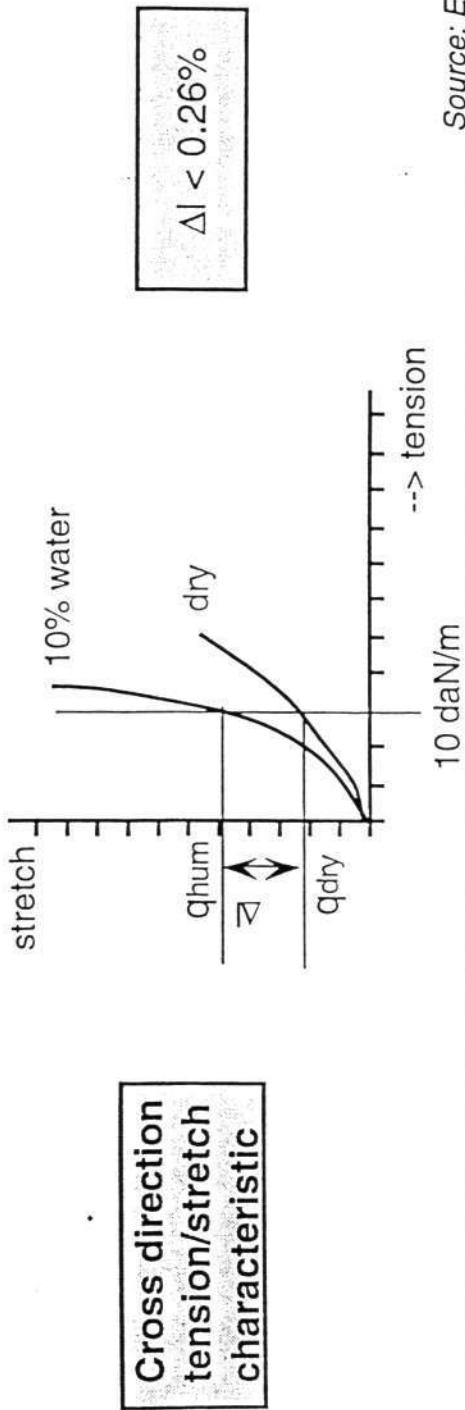
Figure 11

## Tension/stretch specification for offset newsprints according to E. Glöckner (KBA)

3. In the lower range of the longitudinal tension/stretch characteristic (up to app. 60 daN/m), the ratio between tensions ( $\sigma_{\text{dry}}$  and  $\sigma_{\text{hum}}$ ) must be less than 2:1 at 10% moisture content.



4. In the tension/stretch characteristic in cross direction, the difference between stretch when dry and with 10% water added ( $\Delta l = q_{\text{hum}} - q_{\text{dry}}$ ) at 10 daN/m should not exceed 0.26%.



Source: E. Glöckner, KBA

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Figure 11

## Age structure and composition of waste paper in South Germany

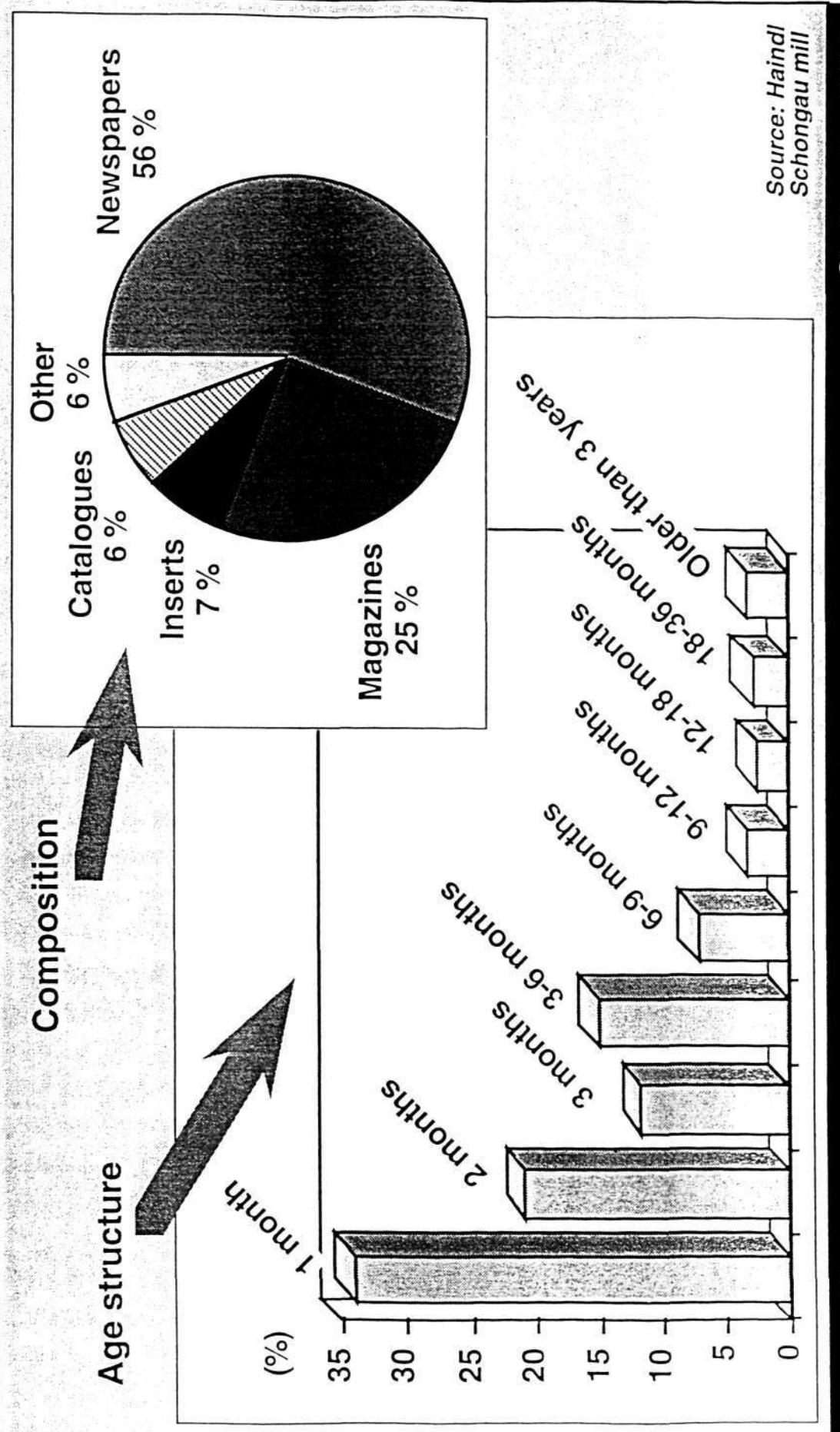


Figure 12