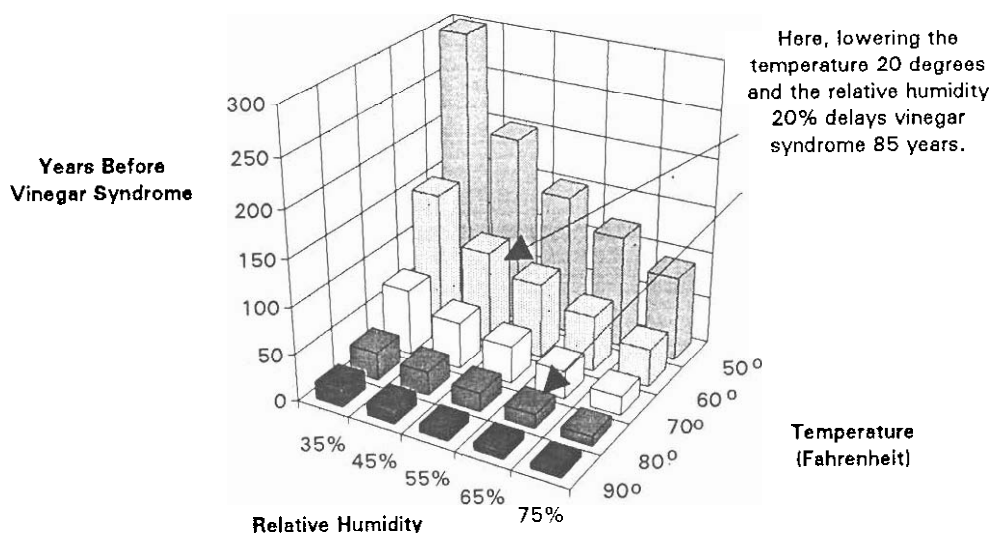


		Average Storage Temperature						
		30°F (-1°C)	40°F (4°C)	50°F (10°C)	60°F (16°C)	70°F (21°C)	80°F (27°C)	90°F (32°C)
Relative Humidity		1600	850	350	200	90	40	25
		1100	600	300	150	70	30	20
	45%	1000	400	200	100	50	25	15
	55%	700	300	150	80	40	20	10
	65%	500	250	120	60	30	15	9
	75%	350	200	90	40	20	10	7
		Approximate Years Before the Onset of Vinegar Syndrome						



**Figure 2: Effect of Temperature and Humidity on Acetate Film:  
When Will Vinegar Syndrome Begin Under Varying Storage Conditions?**  
(Based on data from *The Image Permanence Institute Storage Guide for Acetate Film*)<sup>33</sup>

<sup>33</sup> By the Image Permanence Institute definition, vinegar syndrome is reached at a free acidity level of 0.5. Calculations begin from newly manufactured film stock. See *The IPI Storage Guide for Acetate Film* (Rochester, N.Y.: Image Permanence Institute, 1993).