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Andrew John Ylvisaker* (andrewy@iastate.edu), 396 Carver Hall, Iowa State University,
Ames, IA 50010. *The superfluity of equality.*

In 1985 István Németi first showed that 3-variable logic is sufficiently rich for the study of set theory. At the same time he asked whether a similar result could be obtained without requiring the equality relation. This was answered in the affirmative in 2011. We present a description of the essential difficulty in removing equality, along with the key lemma from the proof that it can be done. (Received March 05, 2013)