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Judy Green and **Jeanne LaDuke***, 3821 N Alta Vista Ter, Chicago, IL 60613. *World War II and After: Impact on American Women in Mathematics*. Preliminary report.

Two hundred twenty-eight American women received Ph.D.'s in mathematics before 1940, nearly half in the 1930s. Of the women who were still working at the beginning of World War II, most had careers in academia and remained in those jobs. However, during the war a number of women mathematicians with Ph.D.'s found opportunities for work that had been unavailable before. Some who had not been permitted to teach because of anti-nepotism practices were now needed; a few served in the military; others changed careers to become part of newly developing fields. We will examine some of these new career possibilities that emerged during and after the war. Because the war also had a significant impact on those entering the field of mathematics, we will specifically consider the women who earned Ph.D.'s in the 1940s and 1950s. We will compare that group with the pre-war Ph.D.'s, especially those who earned degrees in the 1930s. (Received September 18, 2006)