Clint McCrory* (clint@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 30602. Stiefel-Whitney classes of real toric varieties. Preliminary report.

The $k$th Stiefel-Whitney homology class of an $n$-dimensional real toric variety $X$ is represented by the mod 2 cycle which is the sum of the closures of the $k$-dimensional orbits of the action of $(\mathbb{R}^*)^n$ on $X$. To prove this result a theorem of Banchoff and the author is applied to the composition of the moment map $X \to \mathbb{R}^n$ with projection to a generic $(k + 1)$-plane. (Received October 04, 2004)