I will report on joint work with Efthymios Sofos regarding the number of t in P^{n-1} of bounded height such that the equation $x^2-Dy^2=P_1(t)...P_R(t)z^2$ has a solution over Q. Here D is a square-free integer and P_i are fixed integer polynomials of any degree in n variables, where n is relatively large compared to the degrees of the P_i. This settles new cases of the Loughran-Smeets conjecture and we hope it might help shed light on the leading constant.