Hieu D Nguyen* (nguyen@rowan.edu), Rowan University, Department of Mathematics, 201
Mullica Hill Rd., Glassboro, NJ 08028. A Combinatorial Formula for Certain Two-Dimensional
Sequences Related to Generalized Bernoulli Polynomials. Preliminary report.

We present a new combinatorial formula for solving a certain family of two-dimensional sequences, defined recursively by $x_{n,p} = a_{n,p-1}x_{n,p-1} + b_{n,p-1}x_{n-1,p-1}$, that involves some interesting counting functions on subsets of the natural numbers. These sequences arise in certain explicit formulas for generalized Bernoulli polynomials. (Received September 14, 2010)