

# Federal Statistical Infrastructure *for* Puerto Rico

*Data Products and Efforts to Improve Data Access for Puerto Rico*

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*Economic Programs  
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*The opinions and conclusions expressed herein are those of the author  
and do not reflect the views of the U.S. Census Bureau.*

# OBJECTIVES

- key take aways -

- Importance of data in evidence-driven decisions
- What are some of the challenges we face in P.R.
- What is the Census Bureau doing to tackle some of these
- What role can people play to help us



$(a+b)^2 = a^2 + 2ab + b^2$   
 $(a-b)^2 = a^2 - 2ab + b^2$   
 $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$   
 $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$   
 $(a+b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$   
 $(a-b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$   
 $(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$   
 $(a-b)^5 = a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5$   
 $(a+b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$   
 $(a-b)^6 = a^6 - 6a^5b + 15a^4b^2 - 20a^3b^3 + 15a^2b^4 - 6ab^5 + b^6$   
 $(a+b)^7 = a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7$   
 $(a-b)^7 = a^7 - 7a^6b + 21a^5b^2 - 35a^4b^3 + 35a^3b^4 - 21a^2b^5 + 7ab^6 - b^7$   
 $(a+b)^8 = a^8 + 8a^7b + 28a^6b^2 + 56a^5b^3 + 70a^4b^4 + 56a^3b^5 + 28a^2b^6 + 8ab^7 + b^8$   
 $(a-b)^8 = a^8 - 8a^7b + 28a^6b^2 - 56a^5b^3 + 70a^4b^4 - 56a^3b^5 + 28a^2b^6 - 8ab^7 + b^8$   
 $(a+b)^9 = a^9 + 9a^8b + 36a^7b^2 + 84a^6b^3 + 126a^5b^4 + 126a^4b^5 + 84a^3b^6 + 36a^2b^7 + 9ab^8 + b^9$   
 $(a-b)^9 = a^9 - 9a^8b + 36a^7b^2 - 84a^6b^3 + 126a^5b^4 - 126a^4b^5 + 84a^3b^6 - 36a^2b^7 + 9ab^8 - b^9$   
 $(a+b)^{10} = a^{10} + 10a^9b + 45a^8b^2 + 120a^7b^3 + 210a^6b^4 + 252a^5b^5 + 210a^4b^6 + 120a^3b^7 + 45a^2b^8 + 10ab^9 + b^{10}$   
 $(a-b)^{10} = a^{10} - 10a^9b + 45a^8b^2 - 120a^7b^3 + 210a^6b^4 - 252a^5b^5 + 210a^4b^6 - 120a^3b^7 + 45a^2b^8 - 10ab^9 + b^{10}$   
 $(a+b)^{11} = a^{11} + 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 330a^7b^4 + 462a^6b^5 + 462a^5b^6 + 330a^4b^7 + 165a^3b^8 + 55a^2b^9 + 11ab^{10} + b^{11}$   
 $(a-b)^{11} = a^{11} - 11a^{10}b + 55a^9b^2 - 165a^8b^3 + 330a^7b^4 - 462a^6b^5 + 462a^5b^6 - 330a^4b^7 + 165a^3b^8 - 55a^2b^9 + 11ab^{10} - b^{11}$   
 $(a+b)^{12} = a^{12} + 12a^{11}b + 66a^{10}b^2 + 220a^9b^3 + 495a^8b^4 + 792a^7b^5 + 924a^6b^6 + 792a^5b^7 + 495a^4b^8 + 220a^3b^9 + 66a^2b^{10} + 12ab^{11} + b^{12}$   
 $(a-b)^{12} = a^{12} - 12a^{11}b + 66a^{10}b^2 - 220a^9b^3 + 495a^8b^4 - 792a^7b^5 + 924a^6b^6 - 792a^5b^7 + 495a^4b^8 - 220a^3b^9 + 66a^2b^{10} - 12ab^{11} + b^{12}$   
 $(a+b)^{13} = a^{13} + 13a^{12}b + 78a^{11}b^2 + 273a^{10}b^3 + 600a^9b^4 + 1001a^8b^5 + 1287a^7b^6 + 1287a^6b^7 + 1001a^5b^8 + 600a^4b^9 + 273a^3b^{10} + 78a^2b^{11} + 13ab^{12} + b^{13}$   
 $(a-b)^{13} = a^{13} - 13a^{12}b + 78a^{11}b^2 - 273a^{10}b^3 + 600a^9b^4 - 1001a^8b^5 + 1287a^7b^6 - 1287a^6b^7 + 1001a^5b^8 - 600a^4b^9 + 273a^3b^{10} - 78a^2b^{11} + 13ab^{12} - b^{13}$   
 $(a+b)^{14} = a^{14} + 14a^{13}b + 91a^{12}b^2 + 343a^{11}b^3 + 819a^{10}b^4 + 1674a^9b^5 + 2773a^8b^6 + 3771a^7b^7 + 3771a^6b^8 + 2773a^5b^9 + 1674a^4b^{10} + 819a^3b^{11} + 14a^2b^{12} + 14ab^{13} + b^{14}$   
 $(a-b)^{14} = a^{14} - 14a^{13}b + 91a^{12}b^2 - 343a^{11}b^3 + 819a^{10}b^4 - 1674a^9b^5 + 2773a^8b^6 - 3771a^7b^7 + 3771a^6b^8 - 2773a^5b^9 + 1674a^4b^{10} - 819a^3b^{11} + 14a^2b^{12} - 14ab^{13} + b^{14}$   
 $(a+b)^{15} = a^{15} + 15a^{14}b + 105a^{13}b^2 + 429a^{12}b^3 + 1001a^{11}b^4 + 2002a^{10}b^5 + 3003a^9b^6 + 3432a^8b^7 + 3003a^7b^8 + 2002a^6b^9 + 1001a^5b^{10} + 429a^4b^{11} + 105a^3b^{12} + 15a^2b^{13} + 15ab^{14} + b^{15}$   
 $(a-b)^{15} = a^{15} - 15a^{14}b + 105a^{13}b^2 - 429a^{12}b^3 + 1001a^{11}b^4 - 2002a^{10}b^5 + 3003a^9b^6 - 3432a^8b^7 + 3003a^7b^8 - 2002a^6b^9 + 1001a^5b^{10} - 429a^4b^{11} + 105a^3b^{12} - 15a^2b^{13} + 15ab^{14} - b^{15}$   
 $(a+b)^{16} = a^{16} + 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 1456a^{12}b^4 + 3003a^{11}b^5 + 5005a^{10}b^6 + 6720a^9b^7 + 7744a^8b^8 + 6720a^7b^9 + 5005a^6b^{10} + 1456a^5b^{11} + 3003a^4b^{12} + 560a^3b^{13} + 120a^2b^{14} + 16ab^{15} + b^{16}$   
 $(a-b)^{16} = a^{16} - 16a^{15}b + 120a^{14}b^2 - 560a^{13}b^3 + 1456a^{12}b^4 - 3003a^{11}b^5 + 5005a^{10}b^6 - 6720a^9b^7 + 7744a^8b^8 - 6720a^7b^9 + 5005a^6b^{10} - 1456a^5b^{11} + 3003a^4b^{12} - 560a^3b^{13} + 120a^2b^{14} - 16ab^{15} + b^{16}$   
 $(a+b)^{17} = a^{17} + 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 1820a^{13}b^4 + 3773a^{12}b^5 + 6617a^{11}b^6 + 9684a^{10}b^7 + 11628a^9b^8 + 11628a^8b^9 + 9684a^7b^{10} + 6617a^6b^{11} + 1820a^5b^{12} + 3773a^4b^{13} + 680a^3b^{14} + 136a^2b^{15} + 17ab^{16} + b^{17}$   
 $(a-b)^{17} = a^{17} - 17a^{16}b + 136a^{15}b^2 - 680a^{14}b^3 + 1820a^{13}b^4 - 3773a^{12}b^5 + 6617a^{11}b^6 - 9684a^{10}b^7 + 11628a^9b^8 - 11628a^8b^9 + 9684a^7b^{10} - 6617a^6b^{11} + 1820a^5b^{12} - 3773a^4b^{13} + 680a^3b^{14} - 136a^2b^{15} + 17ab^{16} - b^{17}$   
 $(a+b)^{18} = a^{18} + 18a^{17}b + 153a^{16}b^2 + 765a^{15}b^3 + 1995a^{14}b^4 + 4199a^{13}b^5 + 7752a^{12}b^6 + 11718a^{11}b^7 + 14784a^{10}b^8 + 14784a^9b^9 + 11718a^8b^{10} + 7752a^7b^{11} + 1995a^6b^{12} + 4199a^5b^{13} + 765a^4b^{14} + 153a^3b^{15} + 18a^2b^{16} + 18ab^{17} + b^{18}$   
 $(a-b)^{18} = a^{18} - 18a^{17}b + 153a^{16}b^2 - 765a^{15}b^3 + 1995a^{14}b^4 - 4199a^{13}b^5 + 7752a^{12}b^6 - 11718a^{11}b^7 + 14784a^{10}b^8 - 14784a^9b^9 + 11718a^8b^{10} - 7752a^7b^{11} + 1995a^6b^{12} - 4199a^5b^{13} + 765a^4b^{14} - 153a^3b^{15} + 18a^2b^{16} - 18ab^{17} + b^{18}$   
 $(a+b)^{19} = a^{19} + 19a^{18}b + 171a^{17}b^2 + 855a^{16}b^3 + 2277a^{15}b^4 + 4862a^{14}b^5 + 9054a^{13}b^6 + 13287a^{12}b^7 + 17123a^{11}b^8 + 17123a^{10}b^9 + 13287a^9b^{10} + 9054a^8b^{11} + 4862a^7b^{12} + 2277a^6b^{13} + 855a^5b^{14} + 171a^4b^{15} + 19a^3b^{16} + 19a^2b^{17} + 19ab^{18} + b^{19}$   
 $(a-b)^{19} = a^{19} - 19a^{18}b + 171a^{17}b^2 - 855a^{16}b^3 + 2277a^{15}b^4 - 4862a^{14}b^5 + 9054a^{13}b^6 - 13287a^{12}b^7 + 17123a^{11}b^8 - 17123a^{10}b^9 + 13287a^9b^{10} - 9054a^8b^{11} + 4862a^7b^{12} - 2277a^6b^{13} + 855a^5b^{14} - 171a^4b^{15} + 19a^3b^{16} - 19a^2b^{17} + 19ab^{18} - b^{19}$   
 $(a+b)^{20} = a^{20} + 20a^{19}b + 180a^{18}b^2 + 900a^{17}b^3 + 2380a^{16}b^4 + 5196a^{15}b^5 + 9270a^{14}b^6 + 13120a^{13}b^7 + 15876a^{12}b^8 + 15876a^{11}b^9 + 13120a^{10}b^{10} + 9270a^9b^{11} + 5196a^8b^{12} + 2380a^7b^{13} + 900a^6b^{14} + 180a^5b^{15} + 20a^4b^{16} + 20a^3b^{17} + 20a^2b^{18} + 20ab^{19} + b^{20}$   
 $(a-b)^{20} = a^{20} - 20a^{19}b + 180a^{18}b^2 - 900a^{17}b^3 + 2380a^{16}b^4 - 5196a^{15}b^5 + 9270a^{14}b^6 - 13120a^{13}b^7 + 15876a^{12}b^8 - 15876a^{11}b^9 + 13120a^{10}b^{10} - 9270a^9b^{11} + 5196a^8b^{12} - 2380a^7b^{13} + 900a^6b^{14} - 180a^5b^{15} + 20a^4b^{16} - 20a^3b^{17} + 20a^2b^{18} - 20ab^{19} + b^{20}$   
 $(a+b)^{21} = a^{21} + 21a^{20}b + 190a^{19}b^2 + 952a^{18}b^3 + 2520a^{17}b^4 + 5428a^{16}b^5 + 9528a^{15}b^6 + 13720a^{14}b^7 + 16797a^{13}b^8 + 16797a^{12}b^9 + 13720a^{11}b^{10} + 9528a^{10}b^{11} + 5428a^9b^{12} + 2520a^8b^{13} + 952a^7b^{14} + 190a^6b^{15} + 21a^5b^{16} + 21a^4b^{17} + 21a^3b^{18} + 21a^2b^{19} + 21ab^{20} + b^{21}$   
 $(a-b)^{21} = a^{21} - 21a^{20}b + 190a^{19}b^2 - 952a^{18}b^3 + 2520a^{17}b^4 - 5428a^{16}b^5 + 9528a^{15}b^6 - 13720a^{14}b^7 + 16797a^{13}b^8 - 16797a^{12}b^9 + 13720a^{11}b^{10} - 9528a^{10}b^{11} + 5428a^9b^{12} - 2520a^8b^{13} + 952a^7b^{14} - 190a^6b^{15} + 21a^5b^{16} - 21a^4b^{17} + 21a^3b^{18} - 21a^2b^{19} + 21ab^{20} - b^{21}$   
 $(a+b)^{22} = a^{22} + 22a^{21}b + 209a^{20}b^2 + 1028a^{19}b^3 + 2772a^{18}b^4 + 5958a^{17}b^5 + 10286a^{16}b^6 + 14784a^{15}b^7 + 17710a^{14}b^8 + 17710a^{13}b^9 + 14784a^{12}b^{10} + 10286a^{11}b^{11} + 5958a^{10}b^{12} + 2772a^9b^{13} + 1028a^8b^{14} + 209a^7b^{15} + 22a^6b^{16} + 22a^5b^{17} + 22a^4b^{18} + 22a^3b^{19} + 22a^2b^{20} + 22ab^{21} + b^{22}$   
 $(a-b)^{22} = a^{22} - 22a^{21}b + 209a^{20}b^2 - 1028a^{19}b^3 + 2772a^{18}b^4 - 5958a^{17}b^5 + 10286a^{16}b^6 - 14784a^{15}b^7 + 17710a^{14}b^8 - 17710a^{13}b^9 + 14784a^{12}b^{10} - 10286a^{11}b^{11} + 5958a^{10}b^{12} - 2772a^9b^{13} + 1028a^8b^{14} - 209a^7b^{15} + 22a^6b^{16} - 22a^5b^{17} + 22a^4b^{18} - 22a^3b^{19} + 22a^2b^{20} - 22ab^{21} + b^{22}$   
 $(a+b)^{23} = a^{23} + 23a^{22}b + 210a^{21}b^2 + 1058a^{20}b^3 + 2828a^{19}b^4 + 6116a^{18}b^5 + 10580a^{17}b^6 + 15876a^{16}b^7 + 19130a^{15}b^8 + 19130a^{14}b^9 + 15876a^{13}b^{10} + 10580a^{12}b^{11} + 6116a^{11}b^{12} + 2828a^{10}b^{13} + 1058a^9b^{14} + 210a^8b^{15} + 23a^7b^{16} + 23a^6b^{17} + 23a^5b^{18} + 23a^4b^{19} + 23a^3b^{20} + 23a^2b^{21} + 23ab^{22} + b^{23}$   
 $(a-b)^{23} = a^{23} - 23a^{22}b + 210a^{21}b^2 - 1058a^{20}b^3 + 2828a^{19}b^4 - 6116a^{18}b^5 + 10580a^{17}b^6 - 15876a^{16}b^7 + 19130a^{15}b^8 - 19130a^{14}b^9 + 15876a^{13}b^{10} - 10580a^{12}b^{11} + 6116a^{11}b^{12} - 2828a^{10}b^{13} + 1058a^9b^{14} - 210a^8b^{15} + 23a^7b^{16} - 23a^6b^{17} + 23a^5b^{18} - 23a^4b^{19} + 23a^3b^{20} - 23a^2b^{21} + 23ab^{22} - b^{23}$   
 $(a+b)^{24} = a^{24} + 24a^{23}b + 228a^{22}b^2 + 1128a^{21}b^3 + 2970a^{20}b^4 + 6350a^{19}b^5 + 11280a^{18}b^6 + 16797a^{17}b^7 + 19950a^{16}b^8 + 19950a^{15}b^9 + 16797a^{14}b^{10} + 11280a^{13}b^{11} + 6350a^{12}b^{12} + 2970a^{11}b^{13} + 1128a^{10}b^{14} + 228a^9b^{15} + 24a^8b^{16} + 24a^7b^{17} + 24a^6b^{18} + 24a^5b^{19} + 24a^4b^{20} + 24a^3b^{21} + 24a^2b^{22} + 24ab^{23} + b^{24}$   
 $(a-b)^{24} = a^{24} - 24a^{23}b + 228a^{22}b^2 - 1128a^{21}b^3 + 2970a^{20}b^4 - 6350a^{19}b^5 + 11280a^{18}b^6 - 16797a^{17}b^7 + 19950a^{16}b^8 - 19950a^{15}b^9 + 16797a^{14}b^{10} - 11280a^{13}b^{11} + 6350a^{12}b^{12} - 2970a^{11}b^{13} + 1128a^{10}b^{14} - 228a^9b^{15} + 24a^8b^{16} - 24a^7b^{17} + 24a^6b^{18} - 24a^5b^{19} + 24a^4b^{20} - 24a^3b^{21} + 24a^2b^{22} - 24ab^{23} + b^{24}$   
 $(a+b)^{25} = a^{25} + 25a^{24}b + 235a^{23}b^2 + 1170a^{22}b^3 + 3075a^{21}b^4 + 6525a^{20}b^5 + 11700a^{19}b^6 + 16797a^{18}b^7 + 19950a^{17}b^8 + 19950a^{16}b^9 + 16797a^{15}b^{10} + 11700a^{14}b^{11} + 6525a^{13}b^{12} + 3075a^{12}b^{13} + 1170a^{11}b^{14} + 235a^{10}b^{15} + 25a^9b^{16} + 25a^8b^{17} + 25a^7b^{18} + 25a^6b^{19} + 25a^5b^{20} + 25a^4b^{21} + 25a^3b^{22} + 25a^2b^{23} + 25ab^{24} + b^{25}$   
 $(a-b)^{25} = a^{25} - 25a^{24}b + 235a^{23}b^2 - 1170a^{22}b^3 + 3075a^{21}b^4 - 6525a^{20}b^5 + 11700a^{19}b^6 - 16797a^{18}b^7 + 19950a^{17}b^8 - 19950a^{16}b^9 + 16797a^{15}b^{10} - 11700a^{14}b^{11} + 6525a^{13}b^{12} - 3075a^{12}b^{13} + 1170a^{11}b^{14} - 235a^{10}b^{15} + 25a^9b^{16} - 25a^8b^{17} + 25a^7b^{18} - 25a^6b^{19} + 25a^5b^{20} - 25a^4b^{21} + 25a^3b^{22} - 25a^2b^{23} + 25ab^{24} - b^{25}$   
 $(a+b)^{26} = a^{26} + 26a^{25}b + 247a^{24}b^2 + 1200a^{23}b^3 + 3150a^{22}b^4 + 6650a^{21}b^5 + 12000a^{20}b^6 + 16797a^{19}b^7 + 19950a^{18}b^8 + 19950a^{17}b^9 + 16797a^{16}b^{10} + 12000a^{15}b^{11} + 6650a^{14}b^{12} + 3150a^{13}b^{13} + 1200a^{12}b^{14} + 247a^{11}b^{15} + 26a^{10}b^{16} + 26a^9b^{17} + 26a^8b^{18} + 26a^7b^{19} + 26a^6b^{20} + 26a^5b^{21} + 26a^4b^{22} + 26a^3b^{23} + 26a^2b^{24} + 26ab^{25} + b^{26}$   
 $(a-b)^{26} = a^{26} - 26a^{25}b + 247a^{24}b^2 - 1200a^{23}b^3 + 3150a^{22}b^4 - 6650a^{21}b^5 + 12000a^{20}b^6 - 16797a^{19}b^7 + 19950a^{18}b^8 - 19950a^{17}b^9 + 16797a^{16}b^{10} - 12000a^{15}b^{11} + 6650a^{14}b^{12} - 3150a^{13}b^{13} + 1200a^{12}b^{14} - 247a^{11}b^{15} + 26a^{10}b^{16} - 26a^9b^{17} + 26a^8b^{18} - 26a^7b^{19} + 26a^6b^{20} - 26a^5b^{21} + 26a^4b^{22} - 26a^3b^{23} + 26a^2b^{24} - 26ab^{25} + b^{26}$   
 $(a+b)^{27} = a^{27} + 27a^{26}b + 255a^{25}b^2 + 1224a^{24}b^3 + 3240a^{23}b^4 + 6840a^{22}b^5 + 12240a^{21}b^6 + 16797a^{20}b^7 + 19950a^{19}b^8 + 19950a^{18}b^9 + 16797a^{17}b^{10} + 12240a^{16}b^{11} + 6840a^{15}b^{12} + 3240a^{14}b^{13} + 1224a^{13}b^{14} + 255a^{12}b^{15} + 27a^{11}b^{16} + 27a^{10}b^{17} + 27a^9b^{18} + 27a^8b^{19} + 27a^7b^{20} + 27a^6b^{21} + 27a^5b^{22} + 27a^4b^{23} + 27a^3b^{24} + 27a^2b^{25} + 27ab^{26} + b^{27}$   
 $(a-b)^{27} = a^{27} - 27a^{26}b + 255a^{25}b^2 - 1224a^{24}b^3 + 3240a^{23}b^4 - 6840a^{22}b^5 + 12240a^{21}b^6 - 16797a^{20}b^7 + 19950a^{19}b^8 - 19950a^{18}b^9 + 16797a^{17}b^{10} - 12240a^{16}b^{11} + 6840a^{15}b^{12} - 3240a^{14}b^{13} + 1224a^{13}b^{14} - 255a^{12}b^{15} + 27a^{11}b^{16} - 27a^{10}b^{17} + 27a^9b^{18} - 27a^8b^{19} + 27a^7b^{20} - 27a^6b^{21} + 27a^5b^{22} - 27a^4b^{23} + 27a^3b^{24} - 27a^2b^{25} + 27ab^{26} - b^{27}$   
 $(a+b)^{28} = a^{28} + 28a^{27}b + 266a^{26}b^2 + 1232a^{25}b^3 + 3276a^{24}b^4 + 6952a^{23}b^5 + 12320a^{22}b^6 + 16797a^{21}b^7 + 19950a^{20}b^8 + 19950a^{19}b^9 + 16797a^{18}b^{10} + 12320a^{17}b^{11} + 6952a^{16}b^{12} + 3276a^{15}b^{13} + 1232a^{14}b^{14} + 266a^{13}b^{15} + 28a^{12}b^{16} + 28a^{11}b^{17} + 28a^{10}b^{18} + 28a^9b^{19} + 28a^8b^{20} + 28a^7b^{21} + 28a^6b^{22} + 28a^5b^{23} + 28a^4b^{24} + 28a^3b^{25} + 28a^2b^{26} + 28ab^{27} + b^{28}$   
 $(a-b)^{28} = a^{28} - 28a^{27}b + 266a^{26}b^2 - 1232a^{25}b^3 + 3276a^{24}b^4 - 6952a^{23}b^5 + 12320a^{22}b^6 - 16797a^{21}b^7 + 19950a^{20}b^8 - 19950a^{19}b^9 + 16797a^{18}b^{10} - 12320a^{17}b^{11} + 6952a^{16}b^{12} - 3276a^{15}b^{13} + 1232a^{14}b^{14} - 266a^{13}b^{15} + 28a^{12}b^{16} - 28a^{11}b^{17} + 28a^{10}b^{18} - 28a^9b^{19} + 28a^8b^{20} - 28a^7b^{21} + 28a^6b^{22} - 28a^5b^{23} + 28a^4b^{24} - 28a^3b^{25} + 28a^2b^{26} - 28ab^{27} + b^{28}$   
 $(a+b)^{29} = a^{29} + 29a^{28}b + 273a^{27}b^2 + 1240a^{26}b^3 + 3290a^{25}b^4 + 7000a^{24}b^5 + 12400a^{23}b^6 + 16797a^{22}b^7 + 19950a^{21}b^8 + 19950a^{20}b^9 + 16797a^{19}b^{10} + 12400a^{18}b^{11} + 7000a^{17}b^{12} + 3290a^{16}b^{13} + 1240a^{15}b^{14} + 273a^{14}b^{15} + 29a^{13}b^{16} + 29a^{12}b^{17} + 29a^{11}b^{18} + 29a^{10}b^{19} + 29a^9b^{20} + 29a^8b^{21} + 29a^7b^{22} + 29a^6b^{23} + 29a^5b^{24} + 29a^4b^{25} + 29a^3b^{26} + 29a^2b^{27} + 29ab^{28} + b^{29}$   
 $(a-b)^{29} = a^{29} - 29a^{28}b + 273a^{27}b^2 - 1240a^{26}b^3 + 3290a^{25}b^4 - 7000a^{24}b^5 + 12400a^{23}b^6 - 16797a^{22}b^7 + 19950a^{21}b^8 - 19950a^{20}b^9 + 16797a^{19}b^{10} - 12400a^{18}b^{11} + 7000a^{17}b^{12} - 3290a^{16}b^{13} + 1240a^{15}b^{14} - 273a^{14}b^{15} + 29a^{13}b^{16} - 29a^{12}b^{17} + 29a^{11}b^{18} - 29a^{10}b^{19} + 29a^9b^{20} - 29a^8b^{21} + 29a^7b^{22} - 29a^6b^{23} + 29a^5b^{24} - 29a^4b^{25} + 29a^3b^{26} - 29a^2b^{27} + 29ab^{28} - b^{29}$   
 $(a+b)^{30} = a^{30} + 30a^{29}b + 279a^{28}b^2 + 1245a^{27}b^3 + 3300a^{26}b^4 + 7050a^{25}b^5 + 12450a^{24}b^6 + 16797a^{23}b^7 + 19950a^{22}b^8 + 19950a^{21}b^9 + 16797a^{20}b^{10} + 12450a^{19}b^{11} + 7050a^{18}b^{12} + 3300a^{17}b^{13} + 1245a^{16}b^{14} + 30a^{15}b^{15} + 30a^{14}b^{16} + 30a^{13}b^{17} + 30a^{12}b^{18} + 30a^{11}b^{19} + 30a^{10}b^{20} + 30a^9b^{21} + 30a^8b^{22} + 30a^7b^{23} + 30a^6b^{24} + 30a^5b^{25} + 30a^4b^{26} + 30a^3b^{27} + 30a^2b^{28} + 30ab^{29} + b^{30}$   
 $(a-b)^{30} = a^{30} - 30a^{29}b + 279a^{28}b^2 - 1245a^{27}b^3 + 3300a^{26}b^4 - 7050a^{25}b^5 + 12450a^{24}b^6 - 16797a^{23}b^7 + 19950a^{22}b^8 - 19950a^{21}b^9 + 16797a^{20}b^{10} - 12450a^{19}b^{11} + 7050a^{18}b^{12} - 3300a^{17}b^{13} + 1245a^{16}b$

# The U.S. Census Bureau

*to serve as the nation's leading provider of quality data about its people and economy.*

## **CONTEXT**

In 2021, the President established the White House Working Group on Puerto Rico to coordinate federal efforts and to ensure resources from the federal and Puerto Rico governments were invested effectively, swiftly, and equitably.

## **PILLAR 4**

Improve governance and data collection and analysis in Puerto Rico to support greater transparency, access to information, administrative capacity, and a more robust business climate for Puerto Rico residents.

*[Pillar 4 link](#)*

# CHALLENGES

- an overview -



## Understanding Needs

Identify specific data needs and where the most critical information gaps exist



## Sampling Frames

Access to high-quality sampling frames



## Existing Data Sources

Discovery and research of administrative and alternative data sources

# STRATEGIC EFFORTS SUPPORTING PUERTO RICO

- an overview -

## Existing Products

Survey of State Government  
Research & Development  
(SGRD)

--

Puerto Rico's official U.S.  
Census [Profile Page](#)

## Expanding Products

Puerto Rico's first Annual  
Economic Survey

--

Administrative data  
Federal and Puerto Rico's  
Government

## Statistical Capacity

Partnership Program  
University of Puerto Rico

--

Federal Statistical Research  
Data Center

--

Supporting Puerto Rico  
Agencies conduct surveys

# Puerto Rico's Profile – Census.gov page

Increasing Puerto Rico's awareness of the Bureau's offering

## CONTEXT

A new webpage dedicated to Puerto Rico statistics is live on census.gov. The page includes data sets and resources covering topics for Puerto Rico such as population, demographics, income and employment, housing, businesses, and the economy.

[link](https://www.census.gov/puerto-rico)

<https://www.census.gov/puerto-rico>



U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU  
[census.gov](https://www.census.gov)

The screenshot shows the top portion of the Census.gov website's Puerto Rico profile page. At the top, there is a navigation bar with the "United States Census Bureau" logo and links for "Partners", "Researchers", "Educators", "Survey Respondents", "News", "NAICS Codes", "Jobs", "About Us", "Contact Us", and "Help". Below this is a secondary navigation bar with "Topics", "Data & Maps", "Surveys & Programs", and "Resource Library", along with a search box. A language selector dropdown is set to "Español / Spanish". The breadcrumb trail reads: "Census.gov / Census Geographies / Census Island Area Profiles / Puerto Rico Profile". The main content area features a large photograph of a street in Puerto Rico with colorful buildings and balconies. The text "Puerto Rico" is overlaid on the bottom left of the image. Below the image are social media sharing icons for Facebook, Twitter, and LinkedIn. The main text block begins with a welcome message in Spanish: "Le damos la bienvenida a la fuente de información de la Oficina del Censo de los EE. UU. donde encontrará estadísticas completas sobre Puerto Rico. Aquí podrá ver conjuntos de datos y recursos que cubren una amplia gama de temas relacionados con Puerto Rico, tales como población, composición demográfica, ingresos y empleo, vivienda, empresas y economía. Cada uno de los productos de datos es seleccionado cuidadosamente a fin de proporcionar información valiosa sobre la vida, la composición demográfica y las realidades socioeconómicas de Puerto Rico." To the right of this text is a box containing the text "Puerto Rico | Total Population in Puerto Rico" and the number "3,285,874" with the source "Source: 2020 Decennial Census". Below the main text is a paragraph in Spanish: "Nuestro objetivo es empoderar a las personas que son responsables de tomar decisiones, a las empresas, a los investigadores y al público con datos oportunos, precisos, confiables y significativos. Si usted es un funcionario gubernamental que busca datos demográficos para planificar servicios públicos, una empresa que estudia las tendencias del mercado para tomar decisiones de inversión o una persona interesada en las estadísticas de su vecindario, nuestros datos de la Oficina del Censo le servirán como una fuente de información confiable." This is followed by an invitation: "Lo invitamos a explorar Puerto Rico a través de nuestros datos." and a note: "La mayoría de los enlaces están disponibles solo en inglés." At the bottom, there is a yellow button that says "SUSCRÍBASE A NUESTRO BOLETÍN INFORMATIVO DE PUERTO RICO".



# STRATEGIC EFFORTS SUPPORTING PUERTO RICO

- an overview -

## Existing Products

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(SGRD)

--

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## Expanding Products

Puerto Rico's first Annual  
Economic Survey

--

Administrative data  
Federal and Puerto Rico's  
Government

## Statistical Capacity

Partnership Program  
University of Puerto Rico

--

Federal Statistical Research  
Data Center

--

Supporting Puerto Rico  
Agencies conduct surveys

# Expanding Coverage for Puerto Rico

Puerto Rico's Annual Economic Survey

## CONTEXT

If funded, this initiative would support the establishment of a new business and economic program for Puerto Rico, including an annual Puerto Rico Economic Survey as well as a monthly/quarterly economic indicator collection for the island.

## IMPROVEMENTS

- Cover the majority of sectors in the economy
- Accelerate the availability of data for the island
- Public Sector
- Spanish collection instrument & support
- Further support BEA measure Gross Domestic Product annually

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# Puerto Rico's FSRDC

Supporting Puerto Rico's greater and local access to critical data

## CONTEXT

Federal Statistical Research Data Centers (FSRDC) are partnerships between federal statistical agencies and leading research institutions. FSRDCs provide secure environments supporting qualified researchers using restricted-access data while protecting respondent confidentiality.

## **Types of Restricted Census Data Available**

- Economic data
- Demographic data
- Employer-Employee linked data

## **RESEARCH PROJECTS**

- Poverty, education, population trends, trade and supply chains, and employee and employer trends

**Expected** Q4 FY-2024

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# Research & Development

Measuring Puerto Rico's Public & Private Sector Investment

## **Survey of State Government Research & Development (SRGD)**

SGRD collects data on the research and development activities funded and performed by state government agencies.

## **Business Enterprise Research & Development Survey (BERD)**

BERD collects data on the research and development activities funded and performed by private business.

## **Collaboration Efforts**

- Working closely with the Puerto Rico Department of Economic Development and Commerce (DEDC)
- Survey Design
- Methodology
- Gap Analysis
- Build statistical capacity

# HELP US

- things to consider -

- Participate and encourage participation
- Help us identify gaps and interesting data
- Engage



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*U.S. Census Bureau*

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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU  
***[census.gov](https://www.census.gov)***