

David F. DeSante

The Institute for Bird Populations
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Education:

Ph.D. 1973 Biological Sciences. Stanford University, Stanford, CA
M.S. 1966 Materials Science. Stanford University, Stanford, CA
B.S. 1963 Metallurgical Engineering. Case Inst. of Technology, Cleveland, OH

Professional Appointments:

2008- President and Comptroller, The Institute for Bird Populations, Pt. Reyes Sta., CA
1989-2008 Founder, Executive Director, and Chief Scientist, The Institute for Bird Populations
1988-1990 Associate Research Biologist, Institute for Conservation Biology, Palo Alto, CA
1978-1988 Director of Landbird Research, Point Reyes Bird Observatory, Stinson Beach, CA
1975-1978 Assistant Professor of Biology, Reed College, Portland, OR
1974-1975 Acting Assistant Professor of Biology, Stanford University, Stanford, CA

Professional Service:

Bird Populations, Editor, 1992-1996; Managing Editor, 1992 -
Western Birds, Editorial Board, 1970 -
North American Bird Bander, Editorial Board, 1988-1990; Advisory and Review Board, 1985 -
North American Banding Council, Founder and Chairperson; 1996-1998; Treasurer, 1998-2003.
Western Bird Banding Association, President, 1988-1990; Board of Directors, 1985-1992.
Western Field Ornithologists, Board of Directors, 1970-1982.

Professional Societies:

American Ornithologists' Union, Association of Field Ornithologists, Cooper Ornithological Society, The Wildlife Society, Western Bird Banding Association, Western Field Ornithologists.

Awards:

American Birding Association, "Chandler Robbins Conservation and Education Award," 2010
The Wildlife Society, Western Section, "Conservationist of the Year Award," 2005
American Ornithologists Union, Fellow, 2005.
Partners In Flight, Investigations Award, 2003, for efforts to develop conservation strategies for landbirds based on modeling vital rates (awarded to IBP).
Cooper Ornithological Society, runner-up to the H.R. Painton Award, 1991, for the most significant paper published in the *Condor* during the previous 4 years.
American Ornithologists Union, Elective Member, 1985.
Cooper Ornithological Society, A. Brazier Howell Award, 1973, for the best student paper presented at the 43rd annual meeting.

Major Research Interests:

Population dynamics of landbirds; demographic and environmental correlates of vital rates (productivity and survival) in landbirds; reproductive ecology of birds; winter ecology of landbirds; structure, dynamics and stability of landbird communities; avian biomonitoring and

surveying techniques; avian biogeography; population and ecological implications of bird migration; bird navigation.

Selected Publications (from over 85 peer-reviewed papers, monographs, and books authored or co-authored by David F. DeSante):

- Ruegg, K., E. Anderson, K. Paxton, V. Apkenas, S. Lao, R. B. Siegel, D. F. DeSante, F. Moore, and T. Smith. 2014. Mapping migration in a songbird using high-resolution genetic markers. *Molecular Ecology* (2014) 23, 572665739. doi: 10.1111/mec.12977.
- Rundel, C.W., M.B. Wunder, A.H. Alvarado, K.C. Ruegg, R. Harrington, A. Schuh, J.F. Kelly, R.B. Siegel, D.F. DeSante, T.B. Smith, and J. Novembre. 2013. Novel statistical methods for integrating genetic and stable isotope data to infer individual-level migratory connectivity. *Molecular Ecology* 22: 4163-4176.
- LaManna, J.A., T.L. George, J.F. Saracco, M.P. Nott, and D.F. DeSante. 2012. El Niño-Southern Oscillation influences annual survival of a migratory songbird at a regional scale. *Auk* 129:734-743.
- De la Hera, I., D.F. DeSante, and B. Mila. 2011. Feather growth rate and mass in Nearctic passerines with different migratory behaviors and molt patterns. *The Auk* 129:222-230.
- Fuller, T., S. Saatchi, E. Curd, E. Toffelmier, H. Thomassen, W. Buermann, D.F. DeSante, M.P. Nott, J.F. Saracco, C.J. Ralph, J. Pollinger, J. Alexander, and T.B. Smith. 2010. Mapping risk of avian influenza in wild birds in the U.S. *BMC Infectious Diseases* 10:187.
- Saracco, J.F., J.A. Royle, D.F. DeSante, and B. Gardner. 2011. Spatial modeling of survival and residency and application to the Monitoring Avian Productivity and Survivorship program. *Journal of Ornithology* in press. doi: 10.1007/s10336-010-0565-1
- Saracco, J.F., J.A. Royle, D.F. DeSante, and B. Gardner. 2010. Modeling spatial variation in avian survival and residency probabilities. *Ecology* 91(7):1885-1891.
- DeSante, D.F., D.R. Kaschube, J.F. Saracco, and J.E. Hines. 2009. Power to detect differences and trends in apparent survival rates. *Bird Populations* 9: 29-41.
- DeSante, D.F., and D.R. Kaschube. 2009. The Monitoring Avian Productivity and Survivorship (MAPS) program 2004, 2005, and 2006 report. *Bird Populations* 9:86-169.
- Saracco, J.F., D.F. DeSante, M.P. Nott, W.M. Hochachka, S Kelling, and D. Fink. 2009. Integrated bird monitoring and the Avian Knowledge Network: Using multiple data resources to understand spatio-temporal variation in demographic processes and abundance. Pp. 659-661 in Rich, T.D., C. Arizmendi, D.W. Demarest, and C. Thompson (eds.), *Proceedings of the 4th International Partners in Flight Conference: Tundra to Tropics*. 13-16 February 2008. McAllen, Texas. Partners in Flight.
- Saracco, J.F., D.F. DeSante, M.P. Nott, and D.R. Kaschube. 2009. Using MAPS and MoSI to monitor landbirds and inform conservation. Pp. 651-658 in Rich, T.D., C. Arizmendi, D.W. Demarest, and C. Thompson (eds.), *Proceedings of the 4th International Partners in Flight Conference: Tundra to Tropics*. 13-16 February 2008. McAllen, Texas. Partners in Flight.
- Saracco, J.F., D.F. DeSante. 2008. Assessing landbird monitoring programs and demographic causes of population trends. *Jr. Wildlife Management* 72:1665-1673.
- DeSante, D.F., M.P. Nott, and D.R. Kaschube. 2005. Monitoring, modeling and management: why base avian management on vital rates and how should it be done? Pp.795-804 in C.J. Ralph and T.D. Rich, eds., *Bird Conservation Implementation and Integration in the Americas*. USDA Forest Service Gen. Tech. Rep. PEW-GTR-191.

- DeSante, D.F., J.F. Saracco, D.R. O'Grady, K.M. Burton, and B.L. Walker. 2004. Methodological considerations of the Monitoring Avian Productivity and Survivorship (MAPS) program. Pp. 28-45 in Ralph, C.J., and E.H. Dunn, eds. *Monitoring Bird Populations Using Mist Nets. Studies in Avian Biology* 29.
- Siegel, R.B., and D.F. DeSante. 2003. Bird communities in thinned versus unthinned Sierran mixed conifer stands. *Wilson Bull.* 115:155-165.
- Nott, M. P., D. F. DeSante, R. B. Siegel, and P. Pyle. 2002. Influences of the El Niño/Southern Oscillation and the North Atlantic Oscillation on avian productivity in forests of the Pacific Northwest of North America. *Global Ecology and Biogeography* 11:333-342.
- Nott, M. P., and D. F. DeSante. 2002. Demographic monitoring and the identification of transients in mark-recapture models. Pp. 727-736 in J. M. Scott, P. J. Heglund, and M. L. Morrison et al. (eds.), *Predicting Species Occurrences: Issues of Accuracy and Scale*. Island Press, Washington, D.C.
- DeSante, D. F., D. R. O'Grady, and M. P. Nott. 2001. Identifying the proximate demographic cause(s) of population change by modeling spatial variation in productivity, survivorship, and population trends. *Ardea* 89(special issue):185-208.
- DeSante, D. F. 2000. Patterns of productivity and survivorship from the MAPS Program. Pp. 166-177 in R. Boney, D. N. Ashley, R. J. Cooper, and L. Niles (eds.), *Strategies for Bird Conservation: the Partners in Flight Planning Process*. Proceedings RMS-P-16. Ogden, UT: USDA Forest Service, Rocky Mountain Research Station.
- DeSante, D.F., D.R. O'Grady, and P. Pyle. 1999. Measures of productivity and survival derived from standardised mist-netting are consistent with observed population changes. *Bird Study* 46 (suppl.): S178-188.
- DeSante, D. F., and D. K. Rosenberg. 1998. What do we need to monitor in order to manage landbirds? Pp. 93-106 in J. M. Marzluff and R. Sallabanks (Eds.), *Avian Conservation: Research and Management*. Island Press, Washington, D.C.
- DeSante, D. F. 1995. Suggestions for future directions for studies of marked migratory landbirds from the perspective of a practitioner in population management and conservation. *Journal of Applied Statistics* 22:949-965.
- DeSante, D. F., K. M. Burton, J. F. Saracco, and B. L. Walker. 1995. Productivity indices and survival rate estimates from MAPS, a continent-wide programme of constant-effort mist netting in North America. *Journal of Applied Statistics* 22:935-947.
- DeSante, D. F., and T. L. George. 1994. Population trends in the landbirds of western North America. Pp. 173-190 in J. R. Jehl and N. K. Johnson (eds.), *A Century of Avifaunal Change in Western North America. Studies in Avian Biology* No. 15.
- Ralph, C.J., G.R. Geupel, P. Pyle, T.E. Martin, and D.F. DeSante. 1993. *Handbook of Field Methods for Monitoring Landbirds*. USDA Forest Service Gen. Tech. Report PSW-GTR-144.
- DeSante, D.F. 1990. The role of recruitment in the dynamics of a Sierran subalpine bird community. *American Naturalist* 136:429-455.
- DeSante, D. F., and G. R. Geupel. 1987. Landbird productivity in central coastal California: the relationship to annual rainfall, and a reproductive failure in 1986. *Condor* 89:636-653.
- DeSante, D.F. 1986. A field test of the variable circular-plot censusing method in a Sierran subalpine forest habitat. *Condor* 88:129-142.
- DeSante, D.F. 1983. Annual variability in the abundance of migrant landbirds on Southeast Farallon Island, California. *Auk* 100:826-852.

DeSante, D.F., and D.G. Ainley. 1980. *The Avifauna of the South Farallon Islands, California.*
Studies in Avian Biology 4:1-104.