Selected References

Allen, R.G., Pereira, L.S., Raes, Dirk, and Smith, Martin, 1998, <u>Crop evapotranspiration—Guidelines for computing crop</u> <u>water requirements</u>: Rome, FAO Irrigation and Drain-age paper 56, 300 p.

Alley, W.M., Reilly, T.E., and Franke, O.L., 1999, <u>Sustainability of ground-water resources</u>: U.S. Geological Survey Circular 1186, 78 p.

Anderson, Eric, 2006, <u>Snow accumulation and ablation model—SNOW-17</u>: National Weather Service River Forecast System user's manual, 44 p.

Bentall, Ray, 1998, Streams, in Bleed, A.S., and Flower-day, C.A., eds., An atlas of the Sand Hills: University of Nebraska-Lincoln, Conservation and Survey Division, Resource Atlas No. 5b, p. 93–114.

Bentall, Ray, and Shaffer, F.B., 1979, Availability and use of water in Nebraska, 1975: University of Nebraska-Lincoln, Conservation and Survey Division, Nebraska Water Survey Paper 48, 121 p.

Bitner, R.J., 2005, <u>A groundwater model to determine the area within the Upper Big Blue Natural Resources District</u> where groundwater pumping has the potential to increase flow from the Platte River to the underlying aquifer by at least 10 percent of the volume pumped over a 50 year period, Upper Big Blue Natural Resources District, 24 p.

Blandford, T. N., Blazer, D. J., Calhoun, K. C., Dutton, A. R., Naing, Thet, Reedy, R. C., and Scanlon, B. R., 2003, <u>Groundwater availability of the southern Ogallala aquifer in Texas and New Mexico: Numerical simulations</u> <u>through 2050</u>: Final report prepared for the Texas Water Development Board by Daniel B. Stephens and Associates Inc., 158 p.

Blandford T.N., Kuchanur, Muthu, Standen, A.R., Ruggiero, Robert, Calhoun K.C., Kirby, Paul, and Shah, Gopika., 2008, <u>Groundwater availability model of the Edwards-Trinity (High Plains) aquifer in Texas and New Mexico</u>: Final report prepared for the Texas Water Development Board by Daniel B. Stephens and Associates, Inc., 176 p.

Blaney, H.F., and Criddle, W.D., 1966, Determining consumptive use for water developments, in Methods for estimating evapotranspiration—Irrigation and Drainage Specialty Conference, 1966, Las Vegas, Nev., Proceedings: New York, American Society of Civil Engineers, p. 1–34.

Bleed, A.S., and Flowerday, C.A. eds., 1989, An atlas of the Sand Hills: University of Nebraska-Lincoln, Conservation and Survey Division, Resource Atlas No. 5b, 260 p.

Bleed, A.S., and Ginsberg, Marilyn, 1998, Lakes and wetlands, in Bleed, A.S., and Flowerday, C.A., eds., An atlas of the Sand Hills: University of Nebraska-Lincoln, Conservation and Survey Division, Resource Atlas No. 5b, p. 115–122.

Brown, J.F.; Maxwell, Susan; Pervez, Shahriar; Wardlow, Brian; and Callahan, Karin, 2008, National irrigated lands mapping via an automated remote sensing based methodology: Proceedings of the 88th Annual Meeting of the American Meteorological Association, 22nd Conference on Hydrology, 2008, New Orleans, La., No. 12.5.

Brune, G.M., 1975, Major and historical springs of Texas: Austin, Texas Water Development Board, Report 189, 95 p.

Buchanan, R.C., Buddemeier, R.R., and Wilson, B.B., 2009, The High Plains aquifer: Kansas Geological Survey Public Information Circular 18, 6 p.

Bureau of Reclamation, 2011, Great Plains region: Billings, Mont., Bureau of Reclamation

Burnash, R.J.C., 1995, The NWS River Forecast System – catchment modeling, in Singh, V.P., ed., Computer models of watershed hydrology: Highlands Ranch, Colo., Water Resources Publications, p. 311–366.

Businger, J.A., Miyake, M., Dyer, A.J., and Bradley, E.F., 1967, On the direct determination of the turbulent heat flux near the ground: Journal of Applied Meteorology, v. 6, p. 1,025–1,032.

Calder, I.R., Harding, R.J., and Rosier, P.T.W., 1983, An objective assessment of soil-moisture deficit models: Journal of Hydrology, v. 60, p. 329–355.

Cannia, J.C., Woodward, D.W., and Cast, L.D., 2006, <u>Cooperative Hydrology Study hydrostratigraphic units and aquifer</u> <u>characterization report</u>: Lincoln, Nebr., Cooperative Hydrology Study Sponsors, 96 p.

Carney, C.P, 2008, <u>Groundwater flow model of the central model unit of the Nebraska Cooperative Hydrology Study</u> (COHYST) area: Lincoln, Nebr Cooperative Hydrology Study Sponsors, 87 p.

Chávez, J.L., Gowda, P.H., Howell, T.A., and Copeland, K.S., 2007, Evaluating three evapotranspiration mapping algorithms with lysimetric data in the semi-arid Texas High Plains. Conf. Proc. 28th Annual International Irrigation Show December 9-11, 2007, San Diego Convention Center. Irrigation Association. pp. 268-283.

Cobb, P.M., Colarullo, S.J., and Heidari, Manoutchehr, 1983, A ground-water flow model for the Great Bend aquifer, south-central Kansas: Kansas Geological Survey, Open-File Report 83–20, 229 p.

Colaizzi, P.D., Gowda, P.H., Marek, T.H., and Porter, D.O., 2008, <u>Irrigation in the Texas High Plains—A brief history and</u> <u>potential reductions in demand</u>: Irrigation and Drainage, v. 58, no. 3, 18 p., DOI 10.1002/ird.418.

Colorado Department of Natural Resources, 2009, <u>Rules and regulations governing the measurement of ground water</u> <u>diversions located in the Republican River basin within water division no. 1</u>: Colorado Department of Natural Resources, Division of Water Resources.

Colorado Department of Natural Resources, 2010, <u>Colorado Ground Water Commission Home (Designated Basins)</u>: Colorado Department of Natural Resources, Division of Water Resources.

Condon, S.M., 2006, Geologic studies of the Platte River, south-central Nebraska and adjacent areas—Geologic maps, subsurface study, and geologic history: U.S. Geological Survey Professional Paper 1706, 63 p., 2 plates.

Condra, G.E., Reed, E.C., and Gordon, E.D., 1950, Correlation of the Pleistocene deposits of Nebraska: Nebraska Geological Survey Bulletin 15–A, 74 p.

Cronshey, R.G., McCuen, R.H., Miller, Norman, Rawls, Walter, Robbins, Sam, and Woodward, Don, 1986, Urban hydrology for small watersheds—TR-55 (2nd ed.): Washington, D.C., U.S. Dept. of Agriculture, Soil Conservation Service, Engineering Division, Technical Release 55, 164 p.

Daly, Christopher, Neilson, R.P., and Phillips, D.L., 1994, A statistical-topographic model for mapping climatological precipitation over mountainous terrain: Journal of Applied Meteorology, v. 33, no. 2, p. 140–158

Dennehy, K.F., 2000, High Plains regional ground-water study: U.S. Geological Survey Fact Sheet FS–091–00, 6 p.

Dennehy, K.F., Litke, D.W., and McMahon, P.B., 2002, The High Plains aquifer; USA – Ground-water development and sustainability, in Hiscock, K.M., Rivett, M.O., and Davison, R.M., eds., Sustainable ground-water development: London Geological Society, Special Publication 193, p. 99-119.

Diffendal, R.F., 1995, <u>Geology of the Ogallala/High Plains regional aquifer system in Nebraska, in Diffendal, R.F., and</u> Flowerday, C.A., eds., Geologic field trips in Nebraska and adjacent parts of Kansas and South Dakota, Annual meetings (29th) of North-Central and South-Central Sections, Geological Society of America, 1995, Lincoln, Nebr.: University of Nebraska-Lincoln, Conservation and Survey Division, Guidebook no. 10.

Divine, D.P., Joeckel, R.M., Korus, J.T., Hanson, P.R., and Olafsen-Lackey, S., 2009, Eastern Nebraska Water Resources Assessment (ENWRA)—Introduction to a hydrogeologic study: University of Nebraska-Lincoln, Conservation and Survey Division Bulletin 1, 32 p.

Dripps, W.R., and Bradbury, K.R., 2007, A simple daily soil-water balance model for estimating the spatial and temporal distribution of groundwater recharge in temperate humid areas: Hydrogeology Journal, v. 15, no. 3, p. 433–444.

Dugan, J.T., and Zelt, R.B., 2000, Simulation and analysis of soil-water conditions in the Great Plains and adjacent areas, 1951-1980: U.S. Geological Survey Water-Supply Paper 2427, 81 p.

Dutton, A.R., Reedy, R.C., and Mace, R.E., 2001, <u>Saturated thickness in the Ogallala aquifer in the Panhandle water</u> <u>planning area—Simulation of 2000 through 2050 withdrawal projections</u>: Austin, Texas Water Development Board, 39 p.

Fader, S.W., and Stullken, L.E., 1978, Geohydrology of the Great Bend Prairie, south-central Kansas: Kansas Geological Survey, Irrigation Series 4, 19 p.

Fenneman, N.M., and Johnson, D.W., 1946, Physical divisions of the United States (Map): Washington, D.C., U.S. Geological Survey.

Flury, Markus, Fluehler, Hannes, Jury, W.A., and Leuenberger, Joerg, 1994, Susceptibility of soils to preferential flow of water—A field study: Water Resources Research, v. 30, no. 7, p. 1,945–1,954.

Fowler, Anthony, 2002, Assessment of the validity of using mean potential evaporation in computations of the long-term soil water balance: Journal of Hydrology, v. 256, p. 248–263.

Garen, D.C., and Moore, D.S., 2005, Curve number hydrology in water quality modeling—Uses, abuses, and future directions: Journal of the American Water Resources Association, v. 41, no. 2, p. 377–388.

Gleeson, Tom, Yoshihide, Wada, Marc, F.P., Bierkens, Ludovicus, van Beek, P.H., 2012, <u>Water balance of global aquifers</u> revealed by groundwater footprint: Nature, v. 488, no. 7410, p. 197–200

Gurdak, J.J., Hanson, R.T., McMahon, P.B., Bruce, B.W., McCray, J.E., Thyne, G.D., and Reedy, R.C., 2007, Climate variability controls on unsaturated water and chemical movement, High Plains aquifer, USA: Vadose Zone Journal, v. 6, no. 2, p. 533–547.

Gurdak, J.J., and Roe, C.D., 2009, Recharge rates and chemistry beneath playas of the High Plains aquifer—A literature review and synthesis: U.S. Geological Survey Circular 1333, 39 p.

Gustavson, T.C., 1996, Fluvial and eolian depositional systems, paleosols, and paleoclimate of the Upper Cenozoic Ogallala and Blackwater Draw Formations, southern high plains, Texas and New Mexico: Austin, The University of Texas, 62 p.

Gutentag, E.D., Lobmeyer, D.H., and Slagle, S.E., 1981, Geohydrology of southwestern Kansas: Kansas Geological Survey, Irrigation Series 7, 73 p.

Gutentag, E.D., Heimes, F.J., Krothe, N.C., Luckey, R.R., and Weeks, J.B., 1984, Geohydrology of the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Professional Paper 1400–B, 63 p.

Gutmann, M.P., 2005a, Great Plains population and environment data—Agricultural data, 1870–1997 United States: Inter-university Consortium for Political and Social Research ICPSR study number 4254, University of Michigan, Ann Arbor, Mich.

Gutmann, M.P., 2005b, Great Plains population and environment data—Social and demographic data, 1870–2000,United States: Inter-university Consortium for Political and Social Research ICPSR study number 4296, University of Michigan, Ann Arbor, Mich.

Hansen, C.V., 1991, Estimates of freshwater storage and potential natural recharge for principal aquifers in Kansas: U.S. Geological Survey Water-Resources Investigations Report 87–4230, 100 p.

Hargreaves, G.H., and Samani, Z.A., 1985, Reference crop evapotranspiration from temperature: Applied Engineering in Agriculture, v. 1, no. 2, p. 96–99.

Havens, J.S., and Christenson, S.C., 1984, Geohydrology and numerical simulation of the High Plains regional aquifer, northwestern Oklahoma: U.S. Geological Survey Water-Resources Investigations Report 83–4269, 27 p.

Healy, R.W., 2010, Estimating groundwater recharge (1st ed.): Cambridge, U.K., Cambridge University Press, 245 p.

Healy, R.W., Winter, T.C., LaBaugh, J.W., and Franke, O.L., 2007, Water budgets: foundations for effective waterresources management: U.S. Geological Survey Circular 1308, 90 p.

Helsel, D.R., and Hirsch, R.M., 1992, Statistical methods in water resources: Amsterdam, Elsevier, 529 p.

Holliday, V.T., 1989, The Blackwater Draw Formation (Quaternary): A 1.4-plus-m.y. record of eolian sedimentation and soil formation on the southern High Plains: Geological Society of America Bulletin, v. 101, p. 1,598–1,607.

Howell, T.A., Yazar, Attila, Schneider, A.D., Dusek, D.A., and Copeland, K.S., 1995, Yield and water use efficiency of corn in response to LEPA irrigation: Trans. American Society of Agricultural Engineers, v. 38, no. 6, p. 1,737–1,747.

Hutson, S.S., 2007, Guidelines for preparation of state water-use estimates for 2005: U.S. Geological Survey Techniques and Methods, book 4, chap. E1, 38 p.

Hutson, S.S., Barber, N.L., Kenny, J.F., Linsey, K.S., Lumia, D.S., and Maupin, M.A., 2004, Estimated use of water in the United States in 2000: Reston, Va., U.S. Geological Survey Circular 1268, 46 p.

Johnson, C.R., 1960, Geology and ground water in the Platte-Republican Rivers watershed and the Little Blue River basin above Angus, Nebraska: U.S. Geological Survey Water-Supply Paper 1489, 142 p.

Kahle, S.C., Morgan, D.S., Welch, W.B., Ely, D.M., Hinkle, S.R., Vaccaro, J.J., and Orzol, L.L., 2011, Hydrogeologic framework and hydrologic budget components of the Columbia Plateau Regional Aquifer System, Washington, Oregon, and Idaho: U.S. Geological Survey Scientific Investigations Report 2011–5124, 66 p.

Kansas Geological Survey, 2005, Enhanced bedrock elevations estimates for the Ogallala aquifer in Kansas.

Kelly, V.A., Jones, Toya, Fryar, Dennis, Dutton, A.R., and Deeds, N.E., 2010, <u>Appendix F—northern Ogallala GAM update</u> to support 2011 State Water Plan: Texas Water Development Board, 109 p.

Kenny, J.F., 2004, Guidelines for preparation of state water-use estimates for 2000: U.S. Geological Survey Techniques and Methods, book 4, chap. A4, 63 p.

Kenny, J.F., Barber, N.L., Hutson, S.S., Linsey, K.S., Lovelace, J.K., and Maupin, M.A., 2009, Estimated use of water in the United States in 2005: U.S. Geological Survey Circular 1344, 60 p.

Kirkpatrick, Amber, Bozeman, L.B., Bauder, J.W., Waskom, Reagan, Nelbauer, Matt, and Cardon, Grant, 2006, <u>Irrigating</u> <u>with limited water supplies—A practical guide to choosing crops</u>: Montana State University Extension publication EB0169, 29 p.

Klemt, W.B., 1981, Neutron probe measurement of deep soil moisture as an indicator of aquifer recharge rates: Texas Department of Water Resources LP–142, 31 p.

Knowles, Tommy, Nordstrom, Phillip, and Klemt, W.B., 1984, Evaluation of the ground-water resources of the High Plains of Texas: Texas Department of Water Resources Report 288, 113 p.

Kueppers, L.M., Snyder, M.A., and Sloan, L.C., 2007, Irrigation cooling effect—Regional climate forcing by land-use change: Geophysical Research Letters, v. 34, paper L03703, 5 p., DOI 10.1029/2006GL028679.

Landon, M.K., 2002, Preliminary description of a model of ground-water flow and ground-water/surface-water interaction for predevelopment, 1941 to 1950, and 1950 to 1997 development conditions in part of the Republican River Basin, Nebraska, Kansas, and Colorado as of April 26, 2002: U.S. Geological Survey Open-File Report 02–175, 30 p.

Landon, M.K., Rus, D.L., Dietsch, B.J., Johnson, M.R., and Eggemeyer, K.D., 2009, Evapotranspiration rates of riparian forests, Platte River, Nebraska, 2002-2006: U.S. Geological Survey Scientific Investigations Report 2008–5228, 65 p.

Lawton, D.R., 1984, Physical characteristics of the Sand Hills—Groundwater hydrogeology and stream hydrology, in The Sand Hills of Nebraska – Yesterday, today, and tomorrow, 1984 Water Resources Seminar Series, 1984, Proceedings: Lincoln, University of Nebraska-Lincoln, Nebraska Water Resources Center, p. 44–53.

Long, A.J., and Putnam, L.D., 2010, <u>Simulated groundwater flow in the Ogallala and Arikaree aquifers, Rosebud Indian</u> <u>Reservation area, South Dakota—Revisions with data through water year 2008 and simulations of potential future</u> <u>scenarios</u>: U.S. Geological Survey Scientific Investigations Report 2010–5105, 64 p.

Loveland, T.R., Sohl, T.L., Stehman, S.V., Gallant, A.L., Sayler, K.L., Napton, D.E., 2002. A strategy for estimating the rates of recent United States land-cover changes: Photogrammetric Engineering and Remote Sensing, v. 68, p. 1091–1099.

Luckey, R.R., and Becker, M.F., 1999, <u>Hydrogeology, water use, and simulation of flow in the High Plains aquifer in</u> <u>northwestern Oklahoma, southwestern Kansas, and northwestern Texas</u>: U.S. Geological Survey Water-Resources Investigations Report 99–4104, 68 p.

Luckey, R.R., and Cannia, J.C., 2006, <u>Groundwater flow model of the western model unit of the Nebraska Cooperative</u> <u>Hydrology Study (COHYST) area</u>: Lincoln, Nebr., Cooperative Hydrology Study Sponsors, 52 p.

Luckey, R.R., Gutentag, E.D., Heimes, F.J., and Weeks, J.B., 1986, <u>Digital simulation of ground-water flow in the High</u> <u>Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming</u>: U.S. Geological Survey Professional Paper 1400–D, 57 p.

Luckey, R.R., Gutentag, E.D., Heimes, F.J., and Weeks, J.B., 1988, Effects of future ground-water pumpage on the High Plains Aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Professional Paper 1400-E, 44 p.

Maupin, M.A., and Barber, N.L., 2005, Estimated withdrawals from principal aquifers in the United States, 2000: U.S. Geological Survey Circular 1279, 46 p.

McGuire, V.L., 2007, Water-Level Changes in the High Plains Aquifer, Predevelopment to 2005 and 2003 to 2005: U.S. Geological Survey Scientific Investigations Report 2006–5324, 7 p.

McGuire, V.L., 2009, <u>Water-level changes in the High Plains aquifer, predevelopment to 2007, 2005–06, and 2006–07</u>: U.S. Geological Survey Scientific Investigations Report 2009–5019, 9 p.

McGuire, V.L., Johnson, M.R., Schieffer, R.L., Stanton, J.S., Sebree, S.K., and Verstraeten, I.M., 2003, Water in storage and approaches to ground-water management, High Plains aquifer, 2000: U.S. Geological Survey Circular 1243, 51 p.

McGuire, V.L., 2011, <u>Water-level changes in the High Plains aquifer, predevelopment to 2009, 2007–08, and 2008–09</u> and changes in water in storage, predevelopment to 2009: U.S. Geological Survey Scientific Investigations Report 2011– 5089, 13 p.

McKusick, V.L., 2003, <u>Final report of the special master with certification of the adoption of the RRCA groundwater</u> <u>model</u>: Washington, D.C., Supreme Court of the United States, Final Settlement Stipulation in Kansas v. Nebraska and Colorado, No. 126 Original, 52 p.

McMahon, P.B., 2001, <u>Vertical gradients in water chemistry in the central High Plains aquifer, southwestern Kansas and</u> <u>Oklahoma Panhandle, 1999</u>: U.S. Geological Survey Water-Resources Investigations Report 01–4028, 47 p. McMahon, P.B., Bohlke, J.K., and Lehman, T.M., 2004, <u>Vertical gradients in water chemistry and age in the southern High</u> <u>Plains aquifer, Texas, 2002</u>: U.S. Geological Survey Scientific Investigations Report 2004–5053, 53 p.

McMahon, P.B., Dennehy, K.F., Bruce, B.W., Böhlke, J.K., Michel, R.L., Gurdak, J.J., and Hurlbut, D.B., 2006, Storage and transit time of chemicals in thick unsaturated zones under rangeland and irrigated cropland, High Plains, United States: Water Resources Research, v. 42, 18 p., doi:10.1029/2005WR004417.

McMahon, P.B., Dennehy, K.F., Bruce, B.W., Gurdak, J.J., and Qi, S.L., 2007, <u>Water-quality assessment of the High Plains</u> aquifer, <u>1999–2004</u>: U.S. Geological Survey Professional Paper 1749, 136 p.

Melvin, S.R., and Yonts, C.D., 2009, <u>Irrigation scheduling—Checkbook method</u>: University of Nebraska – Lincoln Extension Circular EC709, 9 p.

Miao, Xiaodong, Mason, J.A., Swinehart, J.B., Loope, D.B., Hanson, P.R., Goble, R.J., and Liu, Xiaodong, 2007, A 10,000 year record of dune activity, dust storms, and severe drought in the central Great Plains: Geology, v. 35, no. 2, p. 119–122.

Miller, D.A., and White, R.A., 1998, <u>A conterminous United States multi-layer soil characteristics data set for regional</u> climate and hydrology modeling: University Park, Pa., Earth and Environmental Systems Inst.

Molnau, Myron, and Bissell, V.C., 1983, <u>A continuous frozen ground index for flood forecasting, in Western Snow</u> <u>Conference, 51st, Vancouver, Wash., 1983, Proceedings</u>: Western Snow Conference, p. 109–119.

Muhs, D.R., 2007, Loess deposits, origins, and properties, in Elias, S.A., ed., Encyclopedia of Quaternary Science: Amsterdam, Elsevier, p. 1,405–1,418.

Muhs, D.R., and Bettis, E.A., 2000, <u>Geochemical variations in Peoria Loess of western Iowa indicate paleowinds of</u> <u>midcontinental North America during last glaciation</u>: Quaternary Research, v. 53, p. 49–61. Multi-Resolution Land Characteristics Consortium (MRLC), 2001, National Land Cover Database: U.S. Geological Survey.

Musick, J.T., Pringle, F.B., Harman, W.L., and Stewart, B.A., 1990, Long-term irrigation trends—Texas High Plains: Applied Engineering in Agriculture, v. 6, no. 6, p. 717–724.

Myers, N.C., Hargadine, G.D., and Gillespie, J.B., 1996, <u>Hydrologic and chemical interaction of the Arkansas River and the</u> <u>Equus Beds aquifer between Hutchinson and Wichita, south-central Kansas</u>: U.S. Geological Survey Water-Resources Investigations Report 95–4191, 100 p.

Nakicenovic, Nebojsa, Alcamo, Joseph, Davis, Gerald, de Vries, Bert, Fenhann, Joergen, Gaffin, Stuart, Gregory, Kenneth, Grübler, Arnulf., Jung, T.Y., Kram, Tom, La Rovere, E.L., Michaelis, Laurie, Mori, Shunsuke, Morita, Tsuneyuki, Pepper, William, Pitcher, Hugh, Price, Lynn, Riahi, Keywan, Roehrl, Alexander, Rogner, Hans-Holger, Sankovski, Alexei, Schlesinger, Michael, Shukla, Priyadarshi, Smith, Steven, Swart, Robert, van Rooijen, Sascha, Victor, Nadejda, Dadi, Zhou, 2000, Special report on emissions scenarios: Cambridge, Cambridge University Press, 599 p.

National Climatic Data Center, 2010, Locate weather observation station record: Asheville, N.C., National Climatic Data Center.

Nebraska Department of Natural Resources, 2012, <u>Department of Natural Resources Stream Gaging Data Bank:</u> <u>http://www.dnr.ne.gov/docs/hydrologic2013.html</u>

Ojeda-Bustamante, Waldo, Sifuentes-Ibarra, Ernesto, Slack, D.C., and Carrillo, Mauricio, 2004, Generalization of irrigation scheduling parameters using the growing degree days concept—Application to a potato crop: Irrigation and Drainage, v. 53, no. 3, p. 251–261.

Payero, J.O, and Irmak, Suat, 2008, Construction, installation, and performance of two repacked weighing lysimeters: Irrigation Science, v. 26, pp. 191–202.

Peterson, S.M., 2007, <u>Groundwater flow model of the eastern model unit of the Nebraska Cooperative Hydrology Study</u> (COHYST) area: Lincoln, Nebr., Cooperative Hydrology Study Sponsors, 80 p.

Peterson, S.M., Stanton, J.S., Saunders, A.T., and Bradley, J.R., 2008, <u>Simulation of ground-water flow and effects of</u> <u>ground-water irrigation on base flow in the Elkhorn and Loup River Basins, Nebraska</u>: U.S. Geological Survey Scientific Investigations Report 2008–5143, 65 p.

Prill, R.C., 1968, Movement of moisture in the unsaturated zone in a dune area, southwestern Kansas: U.S. Geological Survey Professional Paper 600–D, p. D1–D9.

Pye, Kenneth, 1995, The nature, origin, and accumulation of loess: Quaternary Science Reviews, v. 14, no. 7, p. 653–667.

Qi, S.L., 2010, <u>Digital map of the aquifer boundary of the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New</u> Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Data Series 543.

Reedy, R.C., Scanlon, B.R., Bruce, B.W., McMahon, P.B., Dennehy, K.F, and Ellett, Kevin, 2003, <u>Groundwater recharge in</u> <u>the southern High Plains in Groundwater availability of the southern Ogallala Aquifer in Texas and New Mexico—</u> <u>Numerical simulations through 2050</u>: Austin, Texas Water Development Board, 15 p.

Richmond, G.M., Swinehart, J.B., Dreeszen, V.H., Tipton, M.J., Bretz, Richard, Steece, F.V., Hallberg, G.R., and Goebel, J.E., 1994, Quaternary geologic map of the Platte River 4°x 6° quadrangle, United States: U.S. Geological Survey Misc. Investigations Series Map I–1420 (NK–14), scale 1:1,000,000.

Scanlon, B.R., and Goldsmith, R.S., 1997, Field study of spatial variability in unsaturated flow beneath and adjacent to playas: Water Resources Research, v. 33, no. 10, p. 2,239–2,252.

Scanlon, B.R., Healy, R.W., and Cook, P.G., 2002, Choosing appropriate techniques for quantifying groundwater recharge: Hydrogeology Journal, v. 10, p 18–39.

Scanlon, B.R.; Keese, Kelley; Bonal, Nedra; Deeds, Neil; Kelley, Van; and Litvak, Marcy, 2005a, Evapotranspiration estimates with emphasis on groundwater evapotranspiration in Texas: Austin, Texas Water Development Board, 123 p.

Scanlon, B.R, Reedy, R.C., and Gates, J.B., 2010, Effects of irrigated agroecosystems—1. Quantity of soil water and groundwater in the southern High Plains, Texas: Water Resources Research, v. 46, W09537, doi:10.1029/2009WR008427, 14 p.

Scanlon, B.R., Reedy, R.C., Stonestrom, D.A., Prudic, D.E., and Dennehy, K.F., 2005b, Impact of land use and land cover change on groundwater recharge and quality in the southwestern U.S.: Global Change Biology, v. 11, p. 1,577–1,593.

Scanlon, B.R., Reedy, R.C., Tachovsky, J.A., 2007, Semiarid unsaturated zone chloride profiles—Archives of past land use change impacts on water resources in the southern High Plains, United States: Water Resources Research, v. 43, W06423, doi:10.1029/2006WR005769, 13 p.

Schwarz, G.E., and Alexander, R.B., 1995, <u>Soils data for the conterminous United States derived from the NRCS state soil</u> geographic (STATSGO) data base: U.S. Geological Survey Open-File Report 95–449.

Senay, G.B., Budde, Michael, Verdin, J.P., and Melesse, A.M., 2007, A coupled remote sensing and simplified surface energy balance approach to estimate actual evapotranspiration from irrigated fields: Sensors 7, no. 6, 979-1000.

Senay, G.B., Budde, M.E., and Verdin, J.P., 2011, Enhancing the simplified surface energy balance (SSEB) approach for estimating landscape ET—Validation with the METRIC model: Agricultural Water Management, v.98, no.4, p. 606–618.

Smith, B.D., Abraham, J.A., Cannia, J.C., Steele, G.V., and Hill, P.L., 2008, Helicopter electromagnetic and magnetic geophysical survey data, Oakland, Ashland, and Firth study areas, eastern Nebraska, March 2007: U.S. Geological Survey Open-File Report 2008–1018, 91 p.

Soller, D.R., 1998, <u>Map showing the thickness and character of Quaternary sediments in the glaciated United States east</u> of the Rocky Mountains—Total thickness of Quaternary sediments: U.S. Geological Survey Digital Data Series DDS–38.

Sohl, T.L., Sayler, K.L., 2008, Using the FORE-SCE model to project land-cover change in the southeastern United States: Ecological Modeling, v. 219, no. 1–2, p. 49–65.

Sohl, T.L., Sayler, K.L., Drummond, M.A., Loveland, T.R., 2007, The FORE-SCE model—A practical approach for projecting land use change using scenario-based modeling: Journal of Land Use Science, v. 2, p. 103–126.

Sophocleous, M.A., 1992, Ground-water recharge estimation and regionalization—The Great Bend Prairie of central Kansas and its recharge statistics: Journal of Hydrology, v. 137, no. 1–4, p. 113–140.

Sophocleous, M.A., 2000, Quantification and regionalization of ground-water recharge in south-central Kansas— Integrating field characterization, statistical analysis, and GIS: The Compass (Kansas Geological Survey, University of Kansas), v. 75, no. 2–3, p. 101–115.

Sophocleous, M.A., 2004, Ground-water recharge and water budgets of the Kansas High Plains and related aquifers: Kansas Geological Survey Bulletin 249, 102 p.

Sophocleous, M.A., Heidari, Manoutchehr, and McElwee, C.D., 1982, Water-quality modeling of the Equus Beds aquifer in south-central Kansas: Lawrence, Kans., University of Kansas Water Resources Research Institute, Contribution No. 231, 68 p.

Sophocleous, M.A., Kluitenberg, G. J., and Healey, J.M., 2002, Southwestern Kansas High Plains deep vadose zone pilot study to estimate Darcian-based ground-water recharge at three instrumented sites: Kansas Geological Survey Open-File Report 2001–11, 120 p.

Sophocleous, M.A., and Perry, C.A., 1985, Experimental studies in natural ground-water-recharge dynamics—The analysis of observed recharge events: Journal of Hydrology, v. 81, no. 3–4, p. 297–332.

Spinazola, J.M., Gillespie, J.B., and Hart, R.J., 1985, Ground-water flow and solute transport in the Equus Beds area, south-central Kansas, 1940-1979: U.S. Geological Survey Water-Resources Investigations Report 85–4336, 68 p.

Stanton, J.S., Peterson, S.M., Fienen, M.N., 2010, <u>Simulation of groundwater flow and effects of groundwater irrigation</u> <u>on stream base flow in the Elkhorn and Loup River Basins, Nebraska, 1895–2055—Phase two</u>: U.S. Geological Survey Scientific Investigations Report 2010–5149, 78 p. with app.

Stegman, E.C., 1988, Corn crop curve comparisons for the central and northern plains of the U.S.: Applied Engineering in Agriculture, v. 4, no. 3, p. 226–233.

Stovall, J.N., Rainwater, K.A., and Frailey, Scott, 2000, Groundwater modeling for the southern High Plains: Lubbock, Tex., Llano Estacado Regional Water Planning Group, variously paginated.

Strauch, K.R., and Linard, Joshua, 2009, Streamflow simulations and percolation estimates using the Soil and Water Assessment Tool for selected basins in north-central Nebraska, 1940-2005: U.S. Geological Survey Scientific Investigations Report 2009–5075, 20 p.

Stullken, L. E., Watts, K. R., and Lindgren, R. J., 1985, Geohydrology of the High Plains aquifer, western Kansas: U.S. Geological Survey Water-Resources Investigations Report 85–4198, 86 p.

Swinehart, J.B., Goeke, J.W., and Winter, T.C., 1988, Field guide to geology and hydrology of the Nebraska Sand Hills, in Geological Society of America Field Trip Guidebook, 1988: Golden, Colorado School of Mines Professional Contributions, no. 12, p. 370–394

Swinehart, J.B, Souders, V.L., DeGraw, H.M., and Diffendal, R.F., Jr., 1985, Cenozoic paleogeography of western Nebraska, in Flores, R.M., and Kaplan, S.S., eds., Cenozoic paleogeography of the west-central United States: Tulsa,

Okla., Society of Economic Paleontologists and Mineralogists, Rocky Mountain Section, Rocky Mountain Paleogeography Symposium, 3d, Denver, p. 209–229.

Texas Tech University, 2007, <u>Ogallala Aquifer Maps and Data, Center for Geospatial Technology:</u> <u>http://www.gis.ttu.edu/OgallalaAquiferMaps/Default.aspx</u>

Thornthwaite, C.W., and Mather, J.R., 1957, Instructions and tables for computing potential evapotranspiration and the water balance: Drexel Inst. of Tech. (Philadelphia) Publications in Climatology, v. 10, no. 3, p. 185–311.

Thornton, P.E., Running, S.W., and White, M.A., 1997, <u>Generating surfaces of daily meteorology variables over large</u> regions of complex terrain: Journal of Hydrology, v. 190, p. 214–251

U.S. Department of Agriculture, 2004, Hydrology: USDA-NRCS National Engineering Handbook, Part 630, Chapter 9: Washington, D.C., U.S. Department of Agriculture, 14 p.

U.S. Department of Agriculture, 1997, Irrigation guide: USDA-NRCS National Engineering Handbook, Part 652, Chapter 6: Washington, D.C., U.S. Department of Agriculture, 85 p.

U.S. Department of Agriculture, variously dated, <u>Census of Agriculture for 1997, 2002, 2007</u>: Washington, D.C., National Agricultural Statistics Service [variously paged].

U.S. Department of Agriculture, 2006, United States General Soil Map (STATSGO2): http://soils.usda.gov/survey/geography/ssurgo/description_statsgo2.html

U.S. Department of Agriculture, <u>National Agricultural Statistics Service</u>, 2008, <u>Cropland data layer</u>: <u>Washington</u>, <u>D.C.</u>: U.S. Department of Agriculture National Agricultural Statistics Service</u>.

U.S. Department of Commerce, Bureau of the Census, variously dated, Census of Agriculture for 1949, 1959, 1969, 1978, 1982, 1987, 1992, v. 1, State and county data: Washington, D.C., Department of Commerce [variously paged].

U.S. Geological Survey, variously dated, <u>Water use in the United States for 1985, 1990, 1995, 2000, 2005</u>: Reston, Va., U.S. Geological Survey [variously paged].

U.S. Department of Agriculture, National Agricultural Statistics Service, 2008, <u>Cropland data layer: Washington, D.C.</u>: U.S. Department of Agriculture National Agricultural Statistics Service.

U.S. Environmental Protection Agency, 2012, <u>National Hydrography Dataset Plus—NHDPlus, edition 2.1:</u> <u>http://www.horizon-systems.com/NHDPlus/NHDPlusV2_home.php</u>

U.S. Geological Survey, 2008, <u>The Moderate Resolution Imaging Spectroradiometer (MODIS) irrigated agriculture dataset</u> <u>for the United States (MirAD-US)</u>: U.S. Geological Survey.

U.S. Geological Survey, 2009, <u>Selected methods for estimating groundwater recharge in humid regions</u>: Reston, Va., U.S. Geological Survey query tool.

U.S. Geological Survey, 2010, <u>USGS streamflow data for Nebraska</u>: U.S. Geological Survey National Water Information System (NWIS) database.

U.S. Geological Survey, 2010, High Plains water-level monitoring study: Lincoln, Nebr., U.S. Geological Survey

U.S. Geological Survey, 2012, <u>USGS streamflow data for Nebraska</u>: U.S. Geological Survey National Water Information System (NWIS) database.

U.S. Historical Climatology Network, 2010, <u>Long-term daily and monthly climate records from stations across the</u> <u>contiguous United States</u>: Oak Ridge, Tenn., U.S. Dept. Of Energy and National Climatic Data Center.

Wahl, K.L., and Wahl, T.L., 1995, Determining the flow of Comal Springs at New Braunfels, Texas, in Texas Water '95 (part of the First International Conference on Water Resources Engineering), San Antonio, Tex., 1995, Proceedings: Austin, Tex., American Society of Civil Engineers, Texas Section, p. 77–86.

Wahl, K.L., and Wahl, T.L., 2007, <u>BFI—A computer program for determining an index to base flow, version 4.15</u>: Bureau of Reclamation software release.

Watts, K.R., 1989, Potential hydrologic effects of ground-water withdrawals from the Dakota aquifer, southwestern Kansas: U.S. Geological Survey Water-Supply Paper 2304, 47 p.

Weeks, J.B., Gutentag, E.D., Heimes, F.J., and Luckey, R.R., 1988, Summary of the High Plains Regional Aquifer-System Analysis in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Professional Paper 1400–A, 30 p.

Weeks, J.B., and Gutentag, E.D., 1981, Bedrock geology, altitude of base, and 1980 saturated thickness of the High Plains aquifer in parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Hydrologic Investigations Atlas HA–648, 2 sheets, scale 1:2,500,000.

Weeks, J.B., and Gutentag, E.D., 1984, Region 17, High Plains, in Back, W., Rosenshein, J.S., and Seaber, P.R., eds., Hydrogeology: Boulder, Colo., Geological Society of America, the Geology of North America, v. O–2, p. 157–164.

Westenbroek, S.M., Kelson, V.A., Dripps, W.R., Hunt, R.J., and Bradbury, K.R., 2010, <u>SWB-A modified Thornthwaite-</u> <u>Mather Soil-Water-Balance code for estimating groundwater recharge</u>: U.S. Geological Survey Techniques and Methods 6,-A31, 60 p.

Westerhoff, Paul, and Crittenden, John, 2009, Urban infrastructure and use of mass balance models for water and salt, in Baker, L.A., ed., The water environment of cities: New York, Springer, p. 49–68.

Wood, W.W., Rainwater, K.A., and Thompson, D.B., 1997, Quantifying macropore recharge—Examples from a semiarid area: Ground Water, v. 35, no. 6, p. 1,097–1,106.

Zhang, Ziya, Koren, Victor, Smith, Michael, Reed, Seann, and Wang, David, 2004, Use of Next Generation Weather Radar data and basin disaggregation to improve continuous hydrograph simulations: Journal of Hydrologic Engineering, v. 9, no. 2, p. 103–115.