

Table 3.14 Operating Performance of Dewatering Solid Bowl Centrifuges

		Polymer Dosage			
Type of Sludge	Feed Solids Concentration (%)	g/kg dry solids	lb/ton dry solids	Cake Solids (%)	Solids Recovery (%)
Raw Primary (PRI)	3 to 7	1 to 3	2 to 6	26 to 36	90 to 97
Raw WAS	0.5 to 2.5	4 to 8	8 to 16	8 to 20	85 to 94
Raw (PRI + WAS)	3 to 5	2 to 5	4 to 10	18 to 25	90 to 96
Anaerobically Digested PRI	4 to 6	2.0 to 7.5	2 to 15	25 to 35	92 to 96
Anaerobically Digested (PRI + WAS)	2 to 6	3 to 10	6 to 20	15 to 27	85 to 98
Aerobically Digested WAS	1 to 3	1.5 to 5.0	3 to 10	8 to 12	88 to 91
Aerobically Digested (PRI + WAS)	1.7 to 4.5	3.0 to 5.5	6 to 11	11 to 18	92 to 98

Source: Turovskiy, Izrail S. and P.K. Mathai. "Wastewater Sludge Processing." Hoboken, New Jersey: John Wiley & Sons, Inc. 2006.

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