



Taxpayer,

Per your request, attached is a table that shows the depreciation percent good factors (Expectancy Life Factors) that Pritchard & Abbott, Inc., will be using for tax year **2024**, for properties having various service lives. These Expectancy Life Factors address only the *physical deterioration* component of depreciation. Other components of depreciation (functional and/or economic obsolescence), to the extent they can be identified and quantified, are addressed through analysis of various property-specific characteristics. One such example would be Utilization or Inutility (throughput relative to capacity) that can act as a mass-appraisal proxy in place of more rigorous methods that look to rate of return or "income shortfall" metrics.

- The attached Expectancy Life table is generic regarding tax year and age. To use this table, look up the expectancy life factor (percent good) corresponding to the age of the equipment in years or the via the specific installation year. The age is shown in ascending order in the 2nd column. Then find the column for the service life of the equipment and that will give the %good factor for this equipment. Longer assumed service lives result in higher percent good factors (i.e., less depreciation), age being equal. For any percent good factor in this table that falls below a floor you believe is appropriate, just use your preferred floor factor instead.
  - Example: Equipment that's 10 years old as of the appraisal date with an assumed service life of 20 years has a percent good factor of 0.6834 (68.34%), equal to 31.66% accumulated depreciation. If the same type of equipment is 19 years old, the percent good factor is 0.10 (10%), equal to the 10% floor. If you don't want to use anything less than a 12% floor (just as an example), then use 0.1200 factor instead of 0.10.
- These percent good factors are based on an assumed 8% rate of return in the expectancy life formula. This rate of return is one that's expected over the depreciable life of the property and doesn't represent any particular property's actual rate of return for any particular year.

Pritchard & Abbott, Inc., does not publish or otherwise provide a schedule of RCN values or service lives corresponding to specific categories or types of property. We generally develop our own RCN schedules and service life guides for use with the specialized industrial and/or oilfield personal property equipment and facilities that we appraise, which may or may not correspond with the schedules used by the appraisal district locally for general business personal property appraisal. We do trend past historical or original costs when appropriate to convert them to current vintage using index data from a variety of sources such as Marshall & Swift, Handy-Whitman, Chemical Engineering Magazine, Oil and Gas Journal, etc. We do not combine trend factors with depreciation factors to form "composite" factors of any kind. We may combine several depreciation factors (say, for all forms of obsolescence) to form a composite "service" factor on selected reports.

Regards,

*Karen Khan*

Karen E. Khan, PE, RPA

*Director of Industrial and Utility Appraisals*

**PRITCHARD & ABBOTT, INC. VALUATION CONSULTANTS**

4900 Overton Commons Court, Fort Worth TX 76132-3687

817.926.7861 (main) | 817.927.5314 (fax) | 817.370.3236 (direct) | 214.724.9975 (cell) |

[kkhan@pandai.com](mailto:kkhan@pandai.com)

**Expectancy Life (% Good) Factors**

**Tax Year 2024**

**10.0% Floor Depreciation\***

**8.0% Rate of Return\***

Year Installed	Age (yrs)	Service Life (yrs)																				
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
2023	1	0.5192	0.6920	0.7781	0.8295	0.8637	0.8879	0.9060	0.9199	0.9310	0.9399	0.9473	0.9535	0.9587	0.9632	0.9670	0.9704	0.9733	0.9759	0.9781	0.9802	0.9820
2022	2	0.1000	0.3593	0.5384	0.6455	0.7165	0.7669	0.8044	0.8334	0.8564	0.8750	0.8904	0.9032	0.9141	0.9234	0.9314	0.9384	0.9445	0.9498	0.9545	0.9587	0.9625
2021	3	0.1000	0.1000	0.2795	0.4466	0.5575	0.6362	0.6948	0.7400	0.7759	0.8050	0.8289	0.8490	0.8659	0.8804	0.8929	0.9038	0.9133	0.9217	0.9291	0.9356	0.9415
2020	4	0.1000	0.1000	0.1000	0.2319	0.3857	0.4950	0.5764	0.6392	0.6889	0.7293	0.7626	0.7904	0.8139	0.8340	0.8514	0.8665	0.8797	0.8913	0.9015	0.9106	0.9187
2019	5	0.1000	0.1000	0.1000	0.1000	0.2003	0.3425	0.4485	0.5302	0.5950	0.6476	0.6909	0.7271	0.7577	0.7839	0.8065	0.8262	0.8433	0.8585	0.8718	0.8837	0.8942
2018	6	0.1000	0.1000	0.1000	0.1000	0.1000	0.1778	0.3103	0.4125	0.4936	0.5593	0.6134	0.6587	0.6970	0.7298	0.7581	0.7826	0.8041	0.8230	0.8397	0.8545	0.8677
2017	7	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1611	0.2855	0.3841	0.4640	0.5298	0.5849	0.6315	0.6714	0.7058	0.7356	0.7617	0.7847	0.8050	0.8230	0.8391
2016	8	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1482	0.2658	0.3610	0.4395	0.5052	0.5607	0.6083	0.6492	0.6848	0.7160	0.7434	0.7676	0.7891	0.8082
2015	9	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1380	0.2498	0.3420	0.4191	0.4843	0.5401	0.5882	0.6300	0.6666	0.6987	0.7271	0.7523	0.7748
2014	10	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1297	0.2366	0.3261	0.4018	0.4665	0.5223	0.5708	0.6132	0.6505	0.6834	0.7127	0.7388
2013	11	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1229	0.2256	0.3126	0.3870	0.4511	0.5068	0.5555	0.5984	0.6363	0.6699	0.6998
2012	12	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1171	0.2163	0.3011	0.3742	0.4377	0.4933	0.5421	0.5853	0.6236	0.6578
2011	13	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1123	0.2083	0.2912	0.3631	0.4260	0.4814	0.5303	0.5737	0.6124
2010	14	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1082	0.2015	0.2825	0.3534	0.4158	0.4709	0.5198	0.5634
2009	15	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1046	0.1955	0.2750	0.3449	0.4067	0.4615	0.5104
2008	16	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1015	0.1903	0.2683	0.3373	0.3986	0.4532
2007	17	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1857	0.2625	0.3307
2006	18	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1816	0.2573
2005	19	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1780
2004	20	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1748
2003	21	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
2002	22	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
2001	23	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
2000	24	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1999	25	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1998	26	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1997	27	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1996	28	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1995	29	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1994	30	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1993	31	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1992	32	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1991	33	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1990	34	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1989	35	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1988	36	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1987	37	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1986	38	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1985	39	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1984	40	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000

$$\% \text{ Good} = \frac{(1+R)^{SL} - (1+R)^{\text{Age}}}{(1+R)^{SL} - 1}, \text{ where } R = \text{Rate of Return (decimal)}$$

SL = Service Life (yrs)  
Age = Age (yrs)

Expectancy Life Factor for any particular year is the inverse of allowed percentage depreciation, converted to decimal form. For example, using a 0.80 expectancy life factor (80% Good) is equivalent to allowance of 20% depreciation. Age-life methods of depreciation are based on the principle of remaining useful life of a property and use calculations related to the accrual of funds necessary to replace the non-salvageable portion of the property over a stated period of time assuming a typical rate of return. The fund balance at any point in time represents the cumulative depreciation the subject property has experienced. A greater assumed rate of return implies less depreciation is taking place, because less accrual of funds is needed over that stated time period to build the replacement cost of the assets. These methods relate to the concept of value as measured by the present worth of the future returns from a property's continued use. This concept is appraisal-oriented versus accounting methods used primarily for IRS cost allocation (tax write-off) purposes. For a complete discussion of valuation depreciation, please reference "Engineering Valuation and Depreciation" by Marston, Winfrey and Hempstead.

\*Different categories of property may have different assumed rates of return and/or floor depreciation rates.

Year Installed	Age (Yrs)	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
2023	1	0.9836	0.9850	0.9863	0.9875	0.9886	0.9895	0.9904	0.9912	0.9919	0.9925	0.9931	0.9937	0.9942	0.9947	0.9951	0.9955	0.9958	0.9961
2022	2	0.9658	0.9688	0.9715	0.9740	0.9762	0.9782	0.9800	0.9816	0.9831	0.9845	0.9857	0.9869	0.9879	0.9889	0.9898	0.9906	0.9913	0.9920
2021	3	0.9467	0.9514	0.9556	0.9594	0.9628	0.9659	0.9688	0.9713	0.9737	0.9758	0.9778	0.9795	0.9812	0.9826	0.9840	0.9853	0.9864	0.9875
2020	4	0.9260	0.9325	0.9384	0.9436	0.9484	0.9527	0.9567	0.9603	0.9635	0.9664	0.9691	0.9716	0.9738	0.9759	0.9778	0.9795	0.9811	0.9826
2018	5	0.9037	0.9121	0.9198	0.9266	0.9328	0.9385	0.9436	0.9482	0.9524	0.9563	0.9598	0.9630	0.9660	0.9686	0.9711	0.9734	0.9754	0.9774
2018	6	0.8795	0.8901	0.8997	0.9082	0.9160	0.9231	0.9294	0.9352	0.9405	0.9453	0.9497	0.9538	0.9574	0.9608	0.9639	0.9667	0.9693	0.9717
2017	7	0.8535	0.8664	0.8779	0.8884	0.8979	0.9064	0.9142	0.9212	0.9277	0.9335	0.9389	0.9437	0.9482	0.9523	0.9561	0.9595	0.9627	0.9656
2016	8	0.8253	0.8407	0.8545	0.8670	0.8782	0.8884	0.8977	0.9061	0.9138	0.9207	0.9271	0.9329	0.9383	0.9432	0.9476	0.9517	0.9555	0.9589
2015	9	0.7949	0.8130	0.8292	0.8438	0.8570	0.8690	0.8799	0.8898	0.8988	0.9070	0.9144	0.9213	0.9275	0.9333	0.9385	0.9433	0.9477	0.9518
2014	10	0.7620	0.7830	0.8018	0.8188	0.8342	0.8481	0.8607	0.8721	0.8826	0.8921	0.9007	0.9087	0.9159	0.9226	0.9287	0.9342	0.9394	0.9441
2013	11	0.7266	0.7507	0.7723	0.7918	0.8094	0.8254	0.8399	0.8531	0.8651	0.8760	0.8860	0.8951	0.9034	0.9110	0.9180	0.9244	0.9303	0.9357
2012	12	0.6894	0.7158	0.7404	0.7627	0.7827	0.8010	0.8175	0.8325	0.8461	0.8586	0.8700	0.8804	0.8899	0.8986	0.9065	0.9139	0.9206	0.9267
2011	13	0.6470	0.6780	0.7060	0.7312	0.7539	0.7745	0.7932	0.8103	0.8257	0.8398	0.8527	0.8645	0.8753	0.8851	0.8941	0.9024	0.9100	0.9170
2010	14	0.6023	0.6373	0.6688	0.6971	0.7228	0.7460	0.7671	0.7862	0.8037	0.8196	0.8341	0.8473	0.8595	0.8706	0.8808	0.8901	0.8987	0.9065
2009	15	0.5541	0.5933	0.6286	0.6604	0.6892	0.7152	0.7388	0.7603	0.7799	0.7971	0.8140	0.8288	0.8424	0.8549	0.8663	0.8768	0.8864	0.8952
2008	16	0.5020	0.5458	0.5852	0.6207	0.6528	0.6819	0.7083	0.7323	0.7542	0.7741	0.7922	0.8088	0.8240	0.8379	0.8507	0.8624	0.8731	0.8829
2007	17	0.4457	0.4945	0.5383	0.5779	0.6136	0.6460	0.6754	0.7021	0.7264	0.7485	0.7688	0.7872	0.8041	0.8196	0.8338	0.8468	0.8588	0.8697
2006	18	0.3850	0.4391	0.4877	0.5316	0.5713	0.6072	0.6398	0.6694	0.6964	0.7210	0.7434	0.7639	0.7827	0.7998	0.8156	0.8300	0.8433	0.8554
2005	19	0.3194	0.3792	0.4331	0.4816	0.5255	0.5653	0.6013	0.6341	0.6640	0.6912	0.7160	0.7387	0.7595	0.7785	0.7959	0.8119	0.8265	0.8400
2004	20	0.2485	0.3146	0.3740	0.4276	0.4761	0.5200	0.5598	0.5960	0.6290	0.6590	0.6865	0.7115	0.7344	0.7554	0.7746	0.7923	0.8085	0.8234
2003	21	0.1719	0.2448	0.3103	0.3694	0.4228	0.4711	0.5150	0.5549	0.5912	0.6243	0.6545	0.6821	0.7074	0.7305	0.7517	0.7711	0.7890	0.8054
2002	22	0.1000	0.1694	0.2414	0.3064	0.3651	0.4183	0.4666	0.5105	0.5504	0.5868	0.6200	0.6504	0.6782	0.7036	0.7269	0.7483	0.7679	0.7859
2001	23	0.1000	0.1000	0.1671	0.2384	0.3029	0.3613	0.4143	0.4625	0.5063	0.5463	0.5828	0.6161	0.6466	0.6745	0.7001	0.7236	0.7452	0.7649
2000	24	0.1000	0.1000	0.1000	0.1650	0.2357	0.2997	0.3578	0.4106	0.4587	0.5025	0.5426	0.5791	0.6125	0.6432	0.6712	0.6970	0.7206	0.7423
1999	25	0.1000	0.1000	0.1000	0.1000	0.1631	0.2332	0.2968	0.3547	0.4073	0.4553	0.4991	0.5391	0.5757	0.6093	0.6400	0.6682	0.6940	0.7178
1998	26	0.1000	0.1000	0.1000	0.1000	0.1000	0.1614	0.2310	0.2942	0.3518	0.4043	0.4522	0.4960	0.5360	0.5727	0.6063	0.6371	0.6654	0.6914
1997	27	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1598	0.2289	0.2918	0.3492	0.4015	0.4493	0.4931	0.5331	0.5698	0.6035	0.6344	0.6628
1996	28	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1584	0.2271	0.2896	0.3468	0.3990	0.4467	0.4904	0.5305	0.5673	0.6010	0.6320
1995	29	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1571	0.2254	0.2877	0.3446	0.3967	0.4443	0.4880	0.5281	0.5649	0.5987
1994	30	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1559	0.2238	0.2859	0.3426	0.3945	0.4421	0.4858	0.5259	0.5627
1993	31	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1549	0.2224	0.2842	0.3408	0.3926	0.4401	0.4838	0.5239
1992	32	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1539	0.2211	0.2827	0.3391	0.3908	0.4383	0.4819
1991	33	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1530	0.2199	0.2813	0.3375	0.3892	0.4366
1990	34	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1522	0.2189	0.2800	0.3361	0.3877
1989	35	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1514	0.2179	0.2788	0.3348
1988	36	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1508	0.2170	0.2778
1987	37	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1501	0.2161
1986	38	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1495
1985	39	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
1984	40	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000

Service Life (Yrs)

**SERVICE FACTORS USING THROUGHPUT AS PROXY FOR ECONOMIC OBSOLESCENCE  
PRITCHARD & ABBOTT, INC.**

Throughput	Formula 4*	Formula 5**
100%	100.0%	100.0%
99%	99.7%	99.5%
98%	99.4%	98.9%
97%	99.1%	98.4%
96%	98.8%	97.8%
95%	98.5%	97.3%
94%	98.2%	96.7%
93%	97.9%	96.2%
92%	97.6%	95.6%
91%	97.2%	95.0%
90%	96.9%	94.5%
89%	96.6%	93.9%
88%	96.3%	93.4%
87%	96.0%	92.8%
86%	95.7%	92.2%
85%	95.4%	91.6%
84%	95.0%	91.1%
83%	94.7%	90.5%
82%	94.4%	89.9%
81%	94.1%	89.3%
80%	93.7%	88.7%
79%	93.4%	88.1%
78%	93.1%	87.5%
77%	92.7%	86.9%
76%	92.4%	86.3%
75%	92.1%	85.7%
74%	91.7%	85.1%
73%	91.4%	84.5%
72%	91.1%	83.9%
71%	90.7%	83.3%
70%	90.4%	82.7%
69%	90.0%	82.0%
68%	89.7%	81.4%
67%	89.3%	80.8%
66%	89.0%	80.1%
65%	88.6%	79.5%
64%	88.3%	78.9%
63%	87.9%	78.2%
62%	87.5%	77.6%
61%	87.2%	76.9%
60%	86.8%	76.2%
59%	86.4%	75.6%
58%	86.1%	74.9%
57%	85.7%	74.2%
56%	85.3%	73.6%
55%	84.9%	72.9%
54%	84.5%	72.2%
53%	84.2%	71.5%
52%	83.8%	70.8%
51%	83.4%	70.1%
50%	83.0%	69.4%

\*Default formula for all properties.

\*\*Modification for non-unit appraised pipelines.

**SERVICE FACTORS USING THROUGHPUT AS PROXY FOR ECONOMIC OBSOLESCENCE  
PRITCHARD & ABBOTT, INC.**

Throughput	Formula 4*	Formula 5**
49%	82.6%	68.7%
48%	82.2%	67.9%
47%	81.8%	67.2%
46%	81.4%	66.5%
45%	81.0%	65.7%
44%	80.6%	65.0%
43%	80.1%	64.2%
42%	79.7%	63.5%
41%	79.3%	62.7%
40%	78.9%	61.9%
39%	78.4%	61.2%
38%	78.0%	60.4%
37%	77.5%	59.6%
36%	77.1%	58.8%
35%	76.6%	57.9%
34%	76.2%	57.1%
33%	75.7%	56.3%
32%	75.2%	55.4%
31%	74.8%	54.6%
30%	74.3%	53.7%
29%	73.8%	52.8%
28%	73.3%	51.9%
27%	72.8%	51.0%
26%	72.3%	50.1%
25%	71.8%	49.2%
24%	71.2%	48.2%
23%	70.7%	47.3%
22%	70.2%	46.3%
21%	69.6%	45.3%
20%	69.0%	44.3%
19%	68.5%	43.2%
18%	67.9%	42.2%
17%	67.3%	41.1%
16%	66.7%	40.0%
15%	66.0%	38.8%
14%	65.4%	37.7%
13%	64.7%	36.5%
12%	64.0%	35.2%
11%	63.3%	33.9%
10%	62.6%	32.6%
9%	61.8%	31.2%
8%	61.0%	29.8%
7%	60.1%	28.3%
6%	59.2%	26.6%
5%	58.3%	24.9%
4%	57.2%	23.0%
3%	56.1%	21.0%
2%	54.8%	18.6%
1%	53.2%	15.7%
0%	50.0%	10.0%

\*Default formula for all properties.

\*\*Modification for non-unit appraised pipelines.