



Calibration Certificate

Indiana Weights and Measures

Division of Weights and Measures
Metrology Laboratory
2525 N Shadeland Ave Ste D3
Indianapolis, IN 46219

Certificate Number: 22-273

Calibration Due Date: July 19, 2023

Date Received: July 18, 2022

Calibration Date: July 19, 2022

Issue Date: July 18, 2022

Issued To: Koenig Scale Company
4779 E Margaret Dr
Terre Haute, IN 47803

Calibration Authorized By: Kevin Koenig
Phone: 812-877-6121
Email: kevkoenig@koenigscale.com

Artifact Description(s)

Test Item(s): 1000 lb, 50 lb, 25 lb test weights

Class Specification: NIST HB 105-1 (1990), Class F

Condition: Suitable for legal metrology.
Minor wear noted.

Serial No: Various

Manufacture: Various

Material: Cast Iron

Calibration Information

Metrologist: K Scott, W Geisler

Temperature: 20.05 °C to 20.82 °C

Equipment Used: SCCE60K2, MTKC500

Mean: 20.51 °C

Procedure: NISTIR 6969 (2019): SOP 8,
Recommended Standard Operating
Procedure for Medium Accuracy
Calibration of Mass Standards by Modified
Substitution

Pressure: 736.73 mmHg to 737.99 mmHg

Mean: 737.55 mmHg

Relative Humidity: 53.43 % to 68.81 %

Mean: 60.08 %

*Data for individual calibrations
are available upon request.*

Calibration Results

Nominal Mass	Serial No. / ID	Manufacture	Conventional Mass Correction		U ± (g)	k factor	Assumed Density (g/cm³)	ASTM E617-18 Class Tolerance Met		NIST HB 105-1 (1990), Class F MPE ± (g)	Compliance with NIST HB 105-1 (1990), Class F	
			As Found (g)	As Left (g)				As Found	As Left		As Found	As Left
1000 lb	G692	Rice Lake	-1	-1	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	18	Rice Lake	-6.5	-6.5	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	9	Rice Lake	-10.8	-10.8	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	3	Rice Lake	-11.2	-11.2	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	1	Rice Lake	2.2	2.2	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	5	Rice Lake	-12.7	-12.7	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	10	Rice Lake	-16.9	-16.9	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	16	Rice Lake	-15.7	-15.7	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	14	Rice Lake	-6.7	-6.7	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	2	Rice Lake	-1.4	-1.4	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	12	Rice Lake	22.8	22.8	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	20	Rice Lake	-1.1	-1.1	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	17	Rice Lake	-20.8	-20.8	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	4	Rice Lake	0	0	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	15	Rice Lake	-3.9	-3.9	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	11	Rice Lake	-1.1	-1.1	8.1	2.1263	7.2	6	6	45	Pass	Pass

This certificate shall not be reproduced except in full, without written approval from the laboratory.



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1000 lb	19	Rice Lake	-7.7	-7.7	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	13	Rice Lake	-10.5	-10.5	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	8	Rice Lake	-10.4	-10.4	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	6	Rice Lake	3.1	3.1	8.1	2.1263	7.2	6	6	45	Pass	Pass
1000 lb	7	Rice Lake	1.3	1.3	8.1	2.1263	7.2	6	6	45	Pass	Pass
500 lb	661L	Rice Lake	3.9	3.9	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	652L	Rice Lake	4.3	4.3	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	660L	Rice Lake	10.5	10.5	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	658L	Rice Lake	3.1	3.1	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	657L	Rice Lake	16.7	16.7	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	653L	Rice Lake	-8.2	-8.2	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	656L	Rice Lake	-7.6	-7.6	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	659L	Rice Lake	-8.4	-8.4	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	663L	Rice Lake	2.1	2.1	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	651L	Rice Lake	8.7	8.7	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	654L	Rice Lake	-4.1	-4.1	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	650L	Rice Lake	-14	-14	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	GL1	Rice Lake	17.4	17.4	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	GL2	Rice Lake	16.5	16.5	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	662L	Rice Lake	17.1	17.1	4.8	2.4288	7.2	6	6	23	Pass	Pass
500 lb	655L	Rice Lake	-6.9	-6.9	4.8	2.4288	7.2	6	6	23	Pass	Pass
250 kg	81	Rice Lake	7.1	7.1	6.3	13.9678	7.2	6	6	25	Pass	Pass
250 kg	86	Rice Lake	2.6	2.6	6.3	13.9678	7.2	6	6	25	Pass	Pass
250 kg	85	Rice Lake	5.9	5.9	6.3	13.9678	7.2	6	6	25	Pass	Pass
250 kg	83	Rice Lake	-5.3	-5.3	6.3	13.9678	7.2	6	6	25	Pass	Pass
250 kg	84	Rice Lake	9.1	9.1	6.3	13.9678	7.2	6	6	25	Pass	Pass
250 kg	82	Rice Lake	14.2	14.2	6.3	13.9678	7.2	6	6	25	Pass	Pass
50 lb	1033	Troemner	0.23	0.23	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1031	Troemner	-0.55	-0.55	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1034	Troemner	0.99	0.99	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	710	Rice Lake	1.06	1.06	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	716	Rice Lake	0.63	0.63	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1035	Troemner	0.12	0.12	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1036	Rice Lake	-1.98	-0.49	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	715	Rice Lake	-0.29	-0.29	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	704	Rice Lake	0.81	0.81	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	706	Rice Lake	-0.87	-0.87	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1032	Troemner	0.35	0.35	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	719	Rice Lake	-0.22	-0.22	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	709	Rice Lake	0.34	0.34	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	714	Rice Lake	1.02	1.02	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	705	Rice Lake	-0.26	-0.26	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	712	Rice Lake	0.74	0.74	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	700	Rice Lake	0.67	0.67	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	711	Rice Lake	-0.29	-0.29	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	701	Rice Lake	-0.84	-0.84	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	713	Rice Lake	-0.24	-0.24	0.33	2.0015	7.2	6	6	2.3	Pass	Pass



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50 lb	206	Rice Lake	1.22	1.22	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	608	Rice Lake	0.34	0.34	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	606	Rice Lake	-0.18	-0.18	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	601	Rice Lake	0.05	0.05	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	205	Rice Lake	1.08	1.08	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	602	Rice Lake	-0.92	-0.92	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	207	Rice Lake	0.82	0.82	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	210	Rice Lake	0.17	0.17	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	201	Rice Lake	0.12	0.12	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	208	Rice Lake	0.93	0.93	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	603	Rice Lake	-0.43	-0.43	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	610	Toledo	0.3	0.3	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	609	Toledo	-0.42	-0.42	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1030	Rice Lake	-1.18	-1.18	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1019	Rice Lake	-0.31	-0.31	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1029	Rice Lake	0.67	0.67	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1017	Rice Lake	-0.18	-0.18	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1013	Rice Lake	-1.23	-1.23	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1014	Rice Lake	-1.22	-1.22	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1026	Rice Lake	-1.15	-1.15	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1027	Rice Lake	-1.12	-1.12	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1024	Rice Lake	-0.82	-0.82	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1016	Rice Lake	-1.51	-1.51	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1012	Rice Lake	-1.41	-1.41	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1011	Toledo	-1.59	-1.59	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1028	Troemer	0.22	0.22	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1023	Fairbanks	-1.78	-1.78	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1015	Toledo	-1.25	-1.25	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1020	Rice Lake	-0.8	-0.8	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1025	Rice Lake	-2.04	-0.6	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	1010	Rice Lake	-0.86	-0.86	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1037	Rice Lake	-0.44	-0.44	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1018	Toledo	-1.83	-1.83	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	902	Toledo	-1.2	-1.2	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	907	Toledo	-1.95	-1.95	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	910	Toledo	-1.51	-1.51	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	905	Toledo	-1.8	-1.8	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	903	Toledo	-0.24	-0.24	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	605	Rice Lake	-0.17	-0.17	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1002	Toledo	-0.57	-0.57	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	202	Rice Lake	0.07	0.07	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	604	Rice Lake	-0.21	-0.21	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1005	Toledo	-1.74	-1.74	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	901	Toledo	-0.19	-0.19	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1008	Toledo	-1.38	-1.38	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	204	Toledo	-0.63	-0.63	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	209	Rice Lake	-1.51	-1.51	0.33	2.0015	7.2	6	6	2.3	Pass	Pass

cc



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50 lb	906	Toledo	-0.52	-0.52	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	607	Rice Lake	-0.85	-0.85	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	203	Rice Lake	-1.19	-1.19	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1001	Toledo	-1.38	-1.38	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	908	Toledo	-0.05	-0.05	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	904	Toledo	-0.26	-0.26	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1007	Toledo	-2.26	0.18	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	1004	Toledo	-0.52	-0.52	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	615	Toledo	-1.56	-1.56	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1009	Rice Lake	-0.24	-0.24	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1003	Toledo	-0.73	-0.73	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1006	Toledo	0.23	0.23	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1010	Rice Lake	-0.63	-0.63	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	909	Toledo	-0.48	-0.48	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	806	Toledo	-1.73	-1.73	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	809	Toledo	-1.82	-1.82	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	407	Rice Lake	-0.81	-0.81	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	405	Rice Lake	-0.8	-0.8	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	408	Rice Lake	-2.17	-0.41	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	805	Toledo	-0.79	-0.79	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	611	Toledo	-0.42	-0.42	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	801	Toledo	-1.22	-1.22	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	808	Toledo	0.05	0.05	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	410	Rice Lake	-2.16	-0.66	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	409	Rice Lake	-0.32	-0.32	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	616	Toledo	0.9	0.9	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	618	Toledo	-0.42	-0.42	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1000	Toledo	1.26	1.26	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	702	Rice Lake	0.26	0.26	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	614	Toledo	0.14	0.14	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	613	Toledo	-0.67	-0.67	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	1022	Toledo	0.69	0.69	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	619	Toledo	0.15	0.15	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	402	Rice Lake	-1.97	-1.97	0.33	2.0015	7.2	7	7	2.3	Pass	Pass
50 lb	403	Rice Lake	-2.17	-0.7	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	401	Rice Lake	-0.35	-0.35	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	620	Mettler	0.16	0.16	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	404	Rice Lake	-2.1	-0.63	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	803	Toledo	-1.1	-1.1	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	406	Rice Lake	-0.71	-0.71	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	810	Toledo	-2.56	-0.69	0.33	2.0015	7.2	7	6	2.3	Fail	Pass
50 lb	612	Toledo	-0.48	-0.48	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	617	Toledo	-1.77	-1.77	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	804	Toledo	-0.15	-0.15	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	807	Toledo	-1.06	-1.06	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
50 lb	802	Toledo	-0.68	-0.68	0.33	2.0015	7.2	6	6	2.3	Pass	Pass
25 lb	2518	Rice Lake	0.51	0.51	0.19	2.003	7.2	6	6	1.1	Pass	Pass



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25 lb	111	Rice Lake	0.42	0.42	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2531	Rice Lake	-0.75	-0.75	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2520	Rice Lake	-0.11	-0.11	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2512	Rice Lake	-0.16	-0.16	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2514	Rice Lake	-0.21	-0.21	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2527	Rice Lake	-0.04	-0.04	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2517	Rice Lake	-0.54	-0.54	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	211	Rice Lake	-0.04	-0.04	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2526	Rice Lake	-0.09	-0.09	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2510	Rice Lake	-0.16	-0.16	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	811	Toledo	0.76	0.76	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2519	Rice Lake	-0.41	-0.41	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2540	Rice Lake	-0.21	-0.21	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2536	Rice Lake	-0.02	-0.02	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2529	Rice Lake	-0.15	-0.15	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2537	Rice Lake	-1.19	-0.33	0.19	2.003	7.2	7	6	1.1	Fail	Pass
25 lb	2524	Rice Lake	0.15	0.15	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2528	Rice Lake	0.05	0.05	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2505	Rice Lake	0.03	0.03	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2506	Rice Lake	-0.5	-0.5	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	411	Rice Lake	0.13	0.13	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2539	Rice Lake	-0.09	-0.09	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2523	Rice Lake	0.11	0.11	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2511	Rice Lake	-0.07	-0.07	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2516	Rice Lake	-0.05	-0.05	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2533	Rice Lake	-0.09	-0.09	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2509	Rice Lake	-0.05	-0.05	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2521	Rice Lake	-0.09	-0.09	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2513	Rice Lake	-0.56	-0.56	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2507	Rice Lake	-1.15	-0.67	0.19	2.003	7.2	7	6	1.1	Fail	Pass
25 lb	2525	Rice Lake	-0.09	-0.09	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2538	Rice Lake	0.04	0.04	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2530	Rice Lake	-0.65	-0.65	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2535	Rice Lake	-0.97	-0.03	0.19	2.003	7.2	7	6	1.1	Fail	Pass
25 lb	2534	Rice Lake	-0.15	-0.15	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2532	Rice Lake	0.06	0.06	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2508	Rice Lake	-0.06	-0.06	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2502	Rice Lake	0.14	0.14	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2515	Rice Lake	0.14	0.14	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2503	Rice Lake	-0.18	-0.18	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2504	Rice Lake	0.08	0.08	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2501	Rice Lake	-0.51	-0.51	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	2522	Rice Lake	0.71	0.71	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 lb	911	Toledo	-0.44	-0.44	0.19	2.003	7.2	6	6	1.1	Pass	Pass
25 kg	22	Rice Lake	1.08	1.08	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	33	Rice Lake	1.18	1.18	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	12	Rice Lake	0.9	0.9	0.34	2.1689	7.2	6	6	2.5	Pass	Pass



Calibration Certificate

Indiana Weights and Measures

Division of Weights and Measures
 Metrology Laboratory
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25 kg	24	Rice Lake	0.65	0.65	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	2	Rice Lake	0.63	0.63	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	31	Rice Lake	0.43	0.43	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	28	Rice Lake	0.93	0.93	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	29	Rice Lake	1.08	1.08	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	30	Rice Lake	1.2	1.2	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	40	Rice Lake	0.65	0.65	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	14	Rice Lake	0.91	0.91	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	34	Rice Lake	1.14	1.14	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	36	Rice Lake	0.47	0.47	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	35	Rice Lake	0.57	0.57	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	4	Rice Lake	0.65	0.65	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	1	Rice Lake	0.52	0.52	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	3	Rice Lake	1.13	1.13	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	27	Rice Lake	1.11	1.11	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	15	Rice Lake	0.94	0.94	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	11	Rice Lake	0.44	0.44	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	7	Rice Lake	1	1	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	5	Rice Lake	1.43	1.43	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	20	Rice Lake	0.43	0.43	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	21	Rice Lake	0.29	0.29	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	13	Rice Lake	0.84	0.84	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	37	Rice Lake	0.81	0.81	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	32	Rice Lake	0.3	0.3	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	26	Rice Lake	0.72	0.72	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	16	Rice Lake	0.4	0.4	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	8	Rice Lake	0.66	0.66	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	6	Rice Lake	0.64	0.64	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	17	Rice Lake	0.29	0.29	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	10	Rice Lake	0.68	0.68	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	18	Rice Lake	0.64	0.64	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	39	Rice Lake	0.7	0.7	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	19	Rice Lake	0.91	0.91	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	38	Rice Lake	0.89	0.89	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	25	Rice Lake	1.19	1.19	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	9	Rice Lake	0.82	0.82	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
25 kg	23	Rice Lake	0.92	0.92	0.34	2.1689	7.2	6	6	2.5	Pass	Pass
20 kg	1LRK	Rice Lake	-0.15	-0.15	0.29	2.1953	7.2	6	6	2	Pass	Pass
10 kg	1247-11	Rice Lake	-0.4	-0.4	0.16	2.0933	7.2	6	6	1	Pass	Pass



Calibration Certificate

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Traceability Statement

The artifact(s) described in this calibration certificate have been compared to the Standards of the State of Indiana. The Standards of the State of Indiana are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The SI unit for mass is the kilogram (kg) (see Conversion Factors below). The certificate number for this calibration is the only unique number to be used in referencing measurement traceability for the artifact(s) described in this calibration certificate.

Uncertainty Statement

The combined standard uncertainty includes uncertainties reported for the standard, uncertainties associated with the measurement process, uncertainties for any observed deviations from reference values which are less than surveillance limits (previous similar determinations have demonstrated that the maximum permissible errors are sufficiently large that buoyancy corrections are not usually significant [i.e., corrections & their uncertainty will not change the last decimal place of the calibration value or uncertainty (with uncertainty rounded to 2 significant digits)]. The combined standard uncertainty is multiplied by a coverage factor, k , to give the expanded uncertainty, which defines an interval with a 95.45 % level of confidence. The expanded uncertainty presented in this calibration certificate is consistent with the Bureau International des Poids et Mesures (BIPM) Guide to the Expression of Uncertainty in Measurement (2008) (GUM). No Surface Roughness evaluation or Magnetic Susceptibility testing has been performed and as a result there are no components for the effects of either in the uncertainty budget.

Conformity Statement

These artifacts were evaluated using NISTIR 6969: Selected Laboratory and Measurement Practices and Procedures to Support Basic Mass Calibrations (2019), SOP 8 Recommended Standard Operating Procedure for Medium Accuracy Calibration of Mass Standards by Modified Substitution. The artifacts notated with "Pass" in the Calibration Results section have been found and/or left within the Maximum Permissible Error (MPE) for NIST HB 105-1 (1990), Class F and are in compliance with that specification. An artifact is considered in compliance when the conventional mass correction plus the measurement uncertainty is equal to or less than the MPE. Bold print and a "Fail" notation indicates an out-of-compliance reading. No Surface Roughness evaluation or Magnetic Susceptibility testing has been performed. Possession of this certificate does imply this artifact meets any other requirements or statutes that may be required.

Pertinent Information

In accordance with Indiana Code (IC) 24-6-3-2, a calibration interval or recall date must be assigned to all calibrations performed by this laboratory. The results listed in this calibration certificate relate only to the artifacts described and extent of calibrations performed. All corrections stated in this calibration certificate correlate to a "Conventional Mass" (CM), also known as 'apparent mass', scale versus 8.0 g/cm^3 reference mass density and an air density of 0.0012 g/cm^3 at $20 \text{ }^\circ\text{C}$.



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Conversion Factors

From NIST Special Publication 811, *Guide for the Use of the International System of Units (SI)*

Factors in **boldface** are exact

To convert from	to	multiply by
carat, metric	to kilogram (kg)	2.0 E-04
grain (gr)	to kilogram (kg)	6.479 891 E-05
ounce (avoirdupois) (oz)	to kilogram (kg)	2.834 952 E-02
ounce (troy or apothecary) (oz)	to kilogram (kg)	3.110 348 E-02
dram (apothecary) (dr)	to kilogram (kg)	3.887 934 6 E-03
scruple (apothecary) (s)	to kilogram (kg)	1.295 978 2 E-03
pennyweight (dwt)	to kilogram (kg)	1.555 174 E-03
pound (avoirdupois) (lb)	to kilogram (kg)	4.535 923 7 E-01

I declare or certify under penalty of perjury under the laws of the State of Indiana that the foregoing is true and correct:

Signed on this 18th day of July, 2022 in the city of Indianapolis, Marion County, Indiana

Authorized Signatory

Howard Wickersham

Metrologist, ISDH