

Financial Statement of the University of Illinois for the twelve months ending June 30, 1897.

RECEIPTS, JULY 1, 1896—JUNE 30, 1897.		
Balances—		
State appropriation, general.....	\$170,180 25	
State appropriation, Laboratory of Natural History.....	246 73	
U. S. Agricultural Experiment Station	166 28	
		\$170,593 26
Overdraft current funds.....		1,237 08
		\$169,356 18
Interest on endowment and land contracts.....	\$23,241 10	
Fees from students.....	22,915 95	
Departments and laboratories.....	3,638 83	
Miscellaneous.....	7,407 21	
State appropriations.....	111,364 93	
State appropriations, Laboratory Natural History.....	9,900 00	
U. S. Government.....	22,000 00	
U. S. Agricultural Experiment Station.....	18,018 67	
School of Pharmacy.....	13,465 46	
School of Medicine.....	3,152 00	
		\$35,104 14
		\$404,460 32
EXPENDITURES, JULY 1, 1896—JUNE 30, 1897.		
Salaries for instruction.....	\$106,455 35	
Salaries for services.....	13,511 70	
Departments and laboratories.....	4,610 90	
Miscellaneous.....	16,672 21	
State appropriation (ther than for salaries.....	167,987 25	
		309,237 41
Laboratory of Natural History.....	\$8,800 67	
Agricultural Experiment Station.....	18,107 75	
School of Pharmacy.....	13,585 36	
School of Medicine.....	3,088 43	
		43,582 21
Balance.....		\$51,640 70
		\$404,460 32

WARRANTS FOR YEAR ENDING JUNE 30, 1898.

GENERAL UNIVERSITY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July	C. A. Kofoid.....	Salary, part May and June, 1897....	\$189 76
2	"	Miles Newberry.....	"	40 00
3	"	Lydia M. Hart.....	Drawings.....	31 85
4	"	U. & C. Elect. St. R'y Co.....	Gas and power.....	750 29
5	"	Odin Coal Co.....	Coal.....	1,110 03
6	"	Petty & Sayers.....	Cabinet.....	69 50
7	"	A. P. Carman.....	Petty expenses.....	3 70
8	"	E. G. Howe.....	"	6 70
9	"	H. E. Summers.....	"	25 57
10	"	Hack & Anderson.....	Printing catalogue.....	739 00
11	"	Maxwell & Mollett.....	Jars, etc.....	5 50
12	"	J. C. Sedgwick.....	Trestle work.....	11 08
13	"	E. W. Sampson.....	Trays.....	9 50
14	"	Kny. Scheerer Co.....	Chemicals, etc.....	25 40
15	"	Richards & Co.....	Milk tester.....	8 85
16	"	George W. Parker & Son.....	Cases, door, etc.....	64 62
17	"	Creamery Package Mfg Co.....	Creamery apparatus, etc.....	16 12
18	"	C. & U. Phoenix Telephone Co.....	Services to September 5, 1897.....	45 00
19	"	Union Mfg Co.....	Water, 3 months, to July 1, 1897.....	125 00
20	"	<i>Champaign County Herald</i>	Printing proceedings, etc.....	88 25
21	"	Standard Oil Co.....	Oil.....	20 93
22	"	Richards & Co.....	Tubing, filter, paper, etc.....	24 56
23	"	Charles W. Bird & Co.....	Duplicator and supplies.....	3 83
24	"	Edward J. Nolan, treasurer.....	Proceedings for 1897.....	5 00
25	"	Ginn & Co.....	Subscription.....	2 00
26	"	Crosby Steam Gauge and V. Co.....	Gauges, tubes, etc.....	111 91
27	"	Whitall, Tatum & Co.....	Chemicals.....	22 52
28	"	Eichberg & Bear.....	Wire mats, etc.....	19 00
29	"	Carl Fischer.....	Mu-ic.....	5 89
30	"	Public School Publishing Co.....	Advertisement.....	12 50
31	"	Illinois Farmers' Institute.....	"	20 00
32	"	Asheroft Mfg Co.....	Indicator cocks.....	11 20
33	"	J. H. Washburn.....	Membership fee, 1897.....	10 00
34	"	Eimer & Amend.....	Thermometers, etc.....	115 25
35	"	Eugene Dietzgen Co.....	Paper, cloth, etc.....	11 97
36	"	Diamond Clamp and Flask Co.....	Brass castings.....	8 03
37	"	Ralph Allen.....	Jersey calf.....	25 00
38	"	Cleveland Twist Drill Co.....	Socket, reamers, etc.....	4 05
39	"	Charles A. Schieren & Co.....	Cement.....	1 40
40	"	James B. Clow & Sons.....	Unions, plugs, valves, etc.....	13 55
41	"	Fuller & Fuller Co.....	Corks, glass, drugs, etc.....	115 58
42	"	Bausch & Lomb Optical Co.....	Minerals, microscope.....	346 24
43	"	Riley Jew-elry Co.....	Stop watch.....	4 50
44	"	H. McFadden & Bro.....	Hay and straw.....	7 45
45	"	F. D. Winkley.....	Cover and tap.....	1 41
46	"	Orr & Lockett Hardware Co.....	Screw hooks, etc.....	4 46
47	"	J. C. Vaughan.....	Seeds.....	9 13
48	"	Lyon & Healey.....	Music.....	9 13
49	"	C. H. Evans & Co.....	Advertisement.....	5 00
50	"	G. E. Stechert.....	Subscription, n, etc.....	55 36
51	"	Boyer Ry Speed Recorder Co.....	Charts, etc.....	3 94
52	"	Maltby & Wallace Co.....	Cap, screws, etc.....	12 68
53	"	Twin City Electric Co.....	Rubber tubing, etc.....	1 35
54	"	Mittendorf & Kiler.....	Wardrobe, glass, etc.....	15 35
55	"	J. D. Phillips.....	Lettering diplomas.....	76 50
56	"	Thomas Franks.....	Flower pots.....	1 00

Warrants—Continued.

No.	Date	To whom.	For what.	Amount.
57	July 1897.	1 E. H. Davis & Co.....	Alcohol.....	\$1 20
58	"	Goodrich Hard Rubber Co.....	Tubing, etc.....	7 80
59	"	Hubbard & Sons.....	Hardware, plumbing, etc.....	33 13
60	"	Yale & Towne Mfg Co.....	Locks, keys, etc.....	11 62
61	"	The Smith Prem'r Typewrit'r Co	Ribbons.....	9 00
62	"	Western Banknote and Eng. Co	Diplomas.....	25 00
63	"	Engineering News Pub. Co.....	Advertisement, to July 17, 1897.....	6 88
64	"	Chicago Times-Herald.....		31 00
65	"	Hammer Dry Plate Co.....	Dry plates.....	10 40
66	"	J. T. Wolcott.....	Typewriting.....	2 50
67	"	J. D. Wallace.....	Tees, unions, etc.....	4 74
68	"	T. H. Trevett.....	Tin, galvanized iron, etc.....	12 08
69	"	A. F. Wuestemann.....	Stop watch and repairing.....	6 50
70	"	A. C. McClurg & Co.....	Printing invitations and stationery	151 98
71	"	D. H. Lyde & Son.....	Books, supplies, etc.....	12 80
72	"	William Price.....	Calceimining, painting, etc.....	101 35
73	"	E. Henry.....	Janitor supplies, etc.....	60 10
74	"	<i>The Gazette</i>	Printing announcement, etc.....	222 45
75	"	C. T. Wilder.....	Blue prints.....	57 05
76	July 10	F. M. McKay.....	Expenses to board meeting.....	160 78
77	"	Alex. McLean.....	"	28 57
78	"	J. E. Armstrong.....	"	67 88
79	"	T. J. Smith.....	"	95 05
80	"	Isaac S. Raymond.....	"	62 50
81	"	Munn, Haves & Miller.....	Services and expenses.....	835 00
82	"	Chicago Legal News Co.....	Laws of 1897.....	2 00
83	"	H. P. Harris.....	Mimeograph work.....	17 15
84	"	Bevis & Co.....	Stakes.....	10 00
85	"	B. V. Swens n.....	Expenses.....	61 25
86	"	Robinson & Burr.....	Test pine, fire clay, etc.....	56 47
87	"	A. P. Cunningham & Son.....	Drugs, basket balls, etc.....	25 05
88	"	Henry Trevett.....	Hardware, etc.....	100 31
89	"	C. A. Besore.....	Lumber, etc.....	149 87
90	"	G. C. Willis.....	Bunting, crash, etc.....	139 66
91	"	S. A. Forbes.....	Expenses.....	57 80
92	"	W. O. Krohn.....	"	38 20
93	"	Goes Lithograph ng Co.....	Printing warrant books.....	41 66
94	"	T. R. Leal.....	Grading, hauling, etc.....	59 61
95	"	Amos F. Moore.....	Horses.....	425 00
96	"	Warner & Swasey.....	Teles ope.....	1,200 00
97	"	Hubbard & Sons.....	Hardware, etc.....	20 98
98	"	J. C. Sedgwick.....	Expenses and lumber.....	12 23
99	"	James H. Rice Co.....	Lumber.....	23 45
100	"	Charles H. Mears & Co.....	"	249 59
101	July 15	<i>Inter Ocean</i>	Printing proposals.....	40 80
102	"	Tribune Co.....	"	34 20
103	"	Ashcroft Mfg Co.....	Indicators, etc.....	36 25
104	"	William Price.....	Painting.....	30 00
105	"	W. W. Walls & Co.....	Lumber.....	81 27
106	"	<i>Champaign County Herald</i> ...	Printing letter head.....	34 50
107	"	Crosby Steam Gauge and V. Co	Cards.....	2 00
108	"	Champaign Supply Co.....	Gat- valves, etc.....	14 62
109	"	A. H. Abbott & Co.....	Mats.....	15 00
110	"	Western Union Telegraph Co.	Telegrams for May and June	38 43
111	"	A. B. Dick Co.....	Mimeograph paper, etc.....	5 76
112	"	D. Appleton & Co.....	Books.....	6 00
113	"	Ward Bros.....	Binding, etc.....	101 64
114	"	Thomas Naughton.....	Photographs.....	7 00
115	"	Charles A. Besore.....	Lumber.....	60 77
116	"	Bevis & Co.....	Sash.....	3 60
117	"	T. H. Trevett.....	Labor, hardware, etc.....	13 30
118	"	Clayton F. Summy Co.....	Tuning pianos.....	7 50
119	"	Twin City Electric Co.....	Batteries, etc.....	9 04
120	"	B. V. Swenson.....	Expenses wiring building, etc.	20 00
121	"	Isaac P. Iding.....	Postage.....	35 00
122	"	W. W. Lindley.....	"	120 00
123	"	S. W. Shattuck, business mgr.	Su dry items.....	84 61
124	"	S. W. Shattuck, business mgr.	Pay-rolls of students, June, 1897.....	542 94
125	"	S. W. Shattuck, business mgr.	Pay-rolls of men, June, 1897.....	620 43
126	July 31	A. S. Draper.....	Salary, July, 1897.....	583 33
127	"	T. J. Burrill.....	"	200 00
128	"	S. W. Shattuck.....	"	166 66
129	"	N. C. Ricker.....	"	191 66
130	"	Ira O. Baker.....	"	183 33
131	"	S. A. Forbes.....	"	83 33
132	"	C. W. Rolfe.....	"	175 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
133	July 31	D. McIntosh.....	Salary, July, 1897.....	\$50 00
134	"	A. N. Talbot.....	"	175 00
135	"	A. W. Palmer.....	"	175 00
136	"	F. F. Frederick.....	"	158 33
137	"	S. W. Parr.....	"	175 00
138	"	H. J. Barton.....	"	166 66
139	"	C. M. Moss.....	"	175 00
140	"	D. K. Dodge.....	"	166 66
141	"	L. P. Breckonridge.....	"	166 66
142	"	David Kinlev.....	"	187 50
143	"	Eugene Davenport.....	"	91 66
144	"	Arnold Tompkins.....	"	150 00
145	"	A. P. Carman.....	"	187 50
146	"	George W. Myers.....	"	145 83
147	"	H. E. Summers.....	"	137 50
148	"	E. J. Townsend.....	"	137 50
149	"	E. B. Greene.....	"	141 66
150	"	James M. White.....	"	125 00
151	"	Katharine Merrill.....	"	108 33
152	"	W. O. Krohn.....	"	150 00
153	"	W. H. Van Dervoort.....	"	137 50
154	"	W. D. Pence.....	"	125 00
155	"	H. S. Grindley.....	"	100 00
156	"	T. A. Clark.....	"	125 00
157	"	B. V. Swenson.....	"	100 00
158	"	A. H. Daniels.....	"	100 00
159	"	Percy F. Bicknell.....	"	129 16
160	"	Geo. D. Fairfield.....	"	108 33
161	"	Chas. W. Tooke.....	"	100 00
162	"	Walter H. Jones.....	"	75 00
163	"	Henry H. Everett.....	"	116 66
164	"	Fred A. Sager.....	"	91 66
165	"	Wm. Esty.....	"	100 00
166	"	Lewis A. Rhoades.....	"	125 00
167	"	Frank Smith.....	"	130 00
168	"	C. D. McLane.....	"	91 66
169	"	P. G. Holden.....	"	50 00
170	"	J. E. McGilvrey.....	"	100 00
171	"	W. J. Fraser.....	"	33 33
172	"	J. C. Blair.....	"	41 66
173	"	Edward G. Howe.....	"	150 00
174	"	W. L. Pillsbury.....	"	158 33
175	"	Geo. W. Graham.....	"	100 00
176	"	Lillie Heath.....	"	60 00
177	"	Sue W. Ford.....	"	50 00
178	"	L. A. Boice.....	"	50 00
179	"	W. F. Marker.....	"	50 00
180	"	D. McIntosh.....	"	75 00
181	"	C. V. Millar.....	"	60 00
182	"	Richard Uttenweiler.....	"	50 00
183	"	Henry J. East.....	"	40 00
184	"	W. R. Hoffman.....	"	37 00
185	"	L. G. Lathrop.....	"	32 00
186	"	J. J. Johnson.....	"	32 00
187	"	Joe Morrow.....	"	75 00
188	"	Albert R. Lee.....	"	20 00
189	"	B. F. Sturtevant Co.....	Extras on heating contract.....	85 00
190	"	H. M. Dickson Mfg Co.....	Changing counters.....	114 50
191	"	Robinson & Burr.....	Speaking tubes.....	48 00
192	"	Peoria Steam Marble Works.....	Contract and extras.....	158 50
193	"	Ricker & White.....	Architects' commission.....	526 72
194	"	H. M. R. Construction Co.....	Name plates.....	10 00
195	"	A. E. Wuesteman.....	Medals and targets.....	40 80
196	"	Brickbuilder Publishing Co.....	Subscription to January, 1898.....	2 50
197	"	Schäffer & Budenberg.....	Calorimeter.....	45 00
198	"	W. L. Pillsbury.....	Expenses to trial, etc.....	14 59
199	"	S. W. Shattuck, business mgr.....	"	23 77
200	"	S. W. Shattuck, business mgr.....	Scholarships.....	562 50
201	"	Warner & Swasey.....	Observatory equipment.....	1,050 00
202	"	Geo. Carpenter & Co.....	Sails rented.....	20 00
203	"	Pittsburgh Plate Glass Co.....	Glass.....	35 30
204	"	Dickinson Cement Co.....	Cement.....	28 50
205	"	J. C. Sedgwick.....	Lumber.....	20 16
206	"	Geo. W. Parker & Son.....	Wire doors, etc.....	22 49
207	"	Chas. Howison.....	Work on drawings.....	10 05
208	"	Vic Beasley.....	Cleaning walls.....	35 00
209	"	Chas. T. Wilder.....	Blue prints.....	23 52

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
210	July 31	Office Specialty M'g Co.	Binding cases, etc.	\$6 00
211	"	Thos. Naughton.	Photographs.	9 50
212	"	Hubbard & Sons.	Hardware, etc.	9 36
213	"	A. C. McClurg & Co.	Painting repairs, etc.	14 13
214	"	Chas. A. Besore.	Lumber.	54 33
215	"	Champaign Supply Co.	Pipe fittings, etc.	17 17
216	"	Walker & Mullekin.	Frames, etc.	7 10
217	"	Ill. Soc. of Eng. and Surveyors.	Advertisement.	10 00
218	"	Petty & Sayers.	Tables.	20 00
219	"	E. Davenport.	Expenses.	18 34
220	"	Chicago Chronicle Co.	Advertising.	69 00
221	"	S. W. Shattuck, Business M'g'r	Freight.	99 91
222	"	"	Expressage.	57 46
223	"	"	Sundry items.	82 39
224	"	W. W. Lindley.	Postage.	58 00
225	"	Arthur W. Palmer.	Expenses.	10 13
226	Aug. 14	J. E. Armstrong.	"	10 00
227	"	F. M. McKay.	"	89 57
228	"	S. A. Bullard.	"	63 55
229	"	W. L. Pillsbury.	"	78 39
230	"	T. R. Leal.	Grading, hauling, etc.	69 18
231	"	R. W. Stark.	Salary, July, 1897.	50 00
232	"	Edward Bush.	Collecting samples.	3 25
233	"	Chas. T. Wilder.	Blue prints.	61 10
234	"	Sheldon Brick Co.	Brick and sand.	16 60
235	"	J. C. Sedgwick.	Expenses, etc.	9 36
236	"	W. W. Walls & Co.	Lumber.	10 10
237	"	Seth J. Temple.	Services as architect.	200 00
238	"	A. Swannell.	Glass, drugs, etc.	27 73
239	"	Hill Art Glass and Dec'r'tive Co	Shellac, finishing, etc.	741 52
240	"	McClellan & Price.	Contract painting, etc.	52 10
241	"	J. D. Green.	Roofing cornice, labor, etc.	275 52
242	"	Alexander Lumber Co.	Lime, plaster, etc.	4 10
243	"	J. M. Chase.	Painting.	140 00
244	"	<i>The Gazette</i>	Printing.	33 35
245	"	Knowlton & Bennett.	Tracing paper, blanks, etc.	9 65
246	"	Mittendorf & Kiler.	Frames, chairs, etc.	13 95
247	"	<i>Chicago Record</i>	Printing proposals.	33 60
248	"	<i>Chicago Times-Herald</i>	Advertisement.	4 20
249	"	Chas. A. Besore.	Lumber.	197 10
250	"	P. E. Taintor.	Cement walks.	1,143 10
251	"	C. D. McLane.	Services as architect.	200 00
252	"	S. W. Shattuck, Business M'g'r	Taxes on lands.	1,450 86
253	"	E. G. Keith.	Services of clerk.	150 00
254	"	J. C. McFarland.	Extra on copper work.	8 50
255	"	Minnesota Sandstone Co.	Contract for cut stone.	5,157 50
256	"	J. C. McFarland.	" roofing.	716 90
257	"	Robinson & Burr.	" plumbing.	346 64
258	"	Peoria Steam Marble Works.	" marble work.	1,114 02
259	"	John Caretti & Co.	" mosaic work.	761 25
260	"	Twin City Electric Co.	" wiring.	159 60
261	"	Jas. H. Rice Co.	" glass.	288 75
262	"	J. A. Boland.	" plastering.	1,206 70
263	"	Chicago Arch'l Iron Works.	" ornamental iron.	1,348 75
264	"	Expanded Metal Fire Proof'g Co	" fire proofing.	1,219 62
265	"	Orr & Lockett Hardware Co.	" hardware.	732 70
266	"	H. M. Dickson Mfg. Co.	" mill work.	881 54
267	"	Hill Art Glass and Dec'r'tive Co	" painting.	664 58
268	"	Chas. H. Besly & Co.	Emery cloth.	1 58
269	"	Eimer & Amend.	Air pump, tubes, etc.	16 25
270	"	Library Bureau.	Oak cases and cards.	27 39
271	"	Jas. B. Clow & Sons.	Water pipe.	21 22
272	"	Orr & Lockett Hardware Co.	Locks, knobs, etc.	32 73
273	"	U. & C. Electric Street R'y Co.	Current and gas.	651 72
274	Aug. 20	T. Wilee Co.	Contract for flooring.	162 29
275	"	H. M. R. Construction Co.	" library building.	1,099 55
276	"	Wylie Miller.	Repairing slate roof.	204 52
277	"	Hill Art Glass and Dec'r'tive Co	Labor, oils, etc.	162 63
278	"	Vic Beasley.	Plastering, etc.	80 20
279	"	H. M. Dickson Mfg. Co.	Doors, locks, lumber.	68 27
280	"	<i>Champaign County Herald</i>	Printing programs, etc.	103 40
281	"	<i>The Gazette</i>	Printing circulars, etc.	267 75
282	"	Thos. Naughton.	Photographs.	19 00
283	"	Oldham Bros.	Metal polish.	1 50
284	"	Wm. Price Estate.	Painting roof, etc.	152 20
285	"	Crescent Pharmacy.	Clock, oil, etc.	9 50

Warrants—Continued.

No	Date.	To whom.	For what.	Amount.
	1897.			
286	Aug. 20	Champaign Supply Co.	Pipe, fees, etc.	\$33 62
287	"	McBeath & Park	Cleese cloth, bats	2 43
288	"	Geo. W. Parker & Son	Book case	28 65
2-9	"	Berkefeld Filter Co.	Filters	4 00
290	"	Fuller & Fuller Co.	Iodine, etc.	16 19
291	"	Prentiss Tool and Supply Co.	Drill	550 00
292	"	Mary Turner Carriel	Expenses	92 53
293	"	T. R. Leal	Grading, hauling, etc.	133 64
294	"	Isaac Fielding	Postage	20 00
295	"	W. W. Lindley	"	20 00
296	"	S. W. Shattuck, Business Mgr.	Petty expenses	13 72
297	"	"	Freight	205 00
298	"	"	Expressage	56 20
299	"	"	Pay roll of men, July, 1897	1,439 86
300	"	"	Pay roll of students, July, 1897	298 93
301	Aug. 31	A. S. Draper	Salary, August, 1897	583 33
302	"	T. J. Burrill	"	200 00
303	"	S. W. Shattuck	"	166 66
304	"	N. C. Ricker	"	191 66
305	"	Ira O. Baker	"	183 33
306	"	S. A. Forbes	"	83 33
307	"	C. W. Rolfe	"	175 00
308	"	D. McIntosh	"	50 00
309	"	A. N. Talbot	"	175 00
310	"	A. W. Palmer	"	175 00
311	"	F. F. Frederick	"	158 33
312	"	S. W. Parr	"	175 00
313	"	H. J. Barton	"	166 66
314	"	Chas. M. Moss	"	175 00
315	"	D. K. Dodge	"	166 66
316	"	L. P. Breckenridge	"	166 66
317	"	David Kinley	"	187 50
318	"	Eugene Davenport	"	91 66
319	"	Arnold Tompkins	"	150 00
320	"	A. P. Carman	"	187 50
321	"	George W. Myers	"	145 83
322	"	H. E. Summers	"	137 50
323	"	Edgar J. Townsend	"	137 50
324	"	E. B. Greene	"	141 66
325	"	James M. White	"	125 00
326	"	Katharine Merrill	"	108 33
327	"	Wm. O. Krohn	"	150 00
328	"	Wm. H. VanDervoort	"	137 50
329	"	W. D. Pence	"	125 00
330	"	H. S. Grindley	"	100 00
331	"	T. A. Clark	"	125 00
332	"	B. V. Swenson	"	100 00
333	"	A. H. Daniels	"	100 00
334	"	Percy F. Bicknell	"	129 16
335	"	Geo. D. Fairfield	"	108 33
336	"	Chas. W. Tooke	"	100 00
337	"	Walter H. Jones	"	75 00
338	"	Henry H. Everett	"	116 66
339	"	Fred A. Sager	"	91 66
340	"	William Esty	"	100 00
341	"	Lewis A. Rhoades	"	125 00
342	"	Frank Smith	"	100 00
343	"	C. D. McLane	"	91 66
344	"	P. G. Holden	"	50 00
345	"	J. E. McGilvery	"	100 00
346	"	W. J. Fraser	"	33 33
347	"	Joseph C. Blair	"	41 66
348	"	Edward G. Howe	"	150 00
349	"	W. L. Pillsbury	"	158 33
350	"	Geo. W. Graham	"	100 00
351	"	Lillie Heath	"	60 00
352	"	Sue W. Ford	"	50 00
353	"	L. A. Boice	"	50 00
354	"	Wm. F. Marker	"	50 00
355	"	Joe Morrow	"	75 00
356	"	Albert R. Lee	"	20 00
357	"	Richard Uttenweiler	"	50 00
358	"	Henry J. East	"	40 00
359	"	W. R. Hoffman	"	37 00
360	"	J. J. Johnson	"	32 00
361	"	L. G. Lathrop	"	32 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
362	1897.			
363	Aug. 31	D. McIntosh.....	Salary, August, 1897.....	\$75 00
364	"	C. V. Millar.....	"	60 00
364	"	R. W. Stark.....	"	50 00
365	"	S. W. Shattuck.....	Part salary to June 30, 1897.....	50 00
366	"	L. P. Breckenridge.....	Salary 3 months, to September, 1897	62 50
367	"	B. F. Sturtevant Co.....	Final payment on heating contract.	1,357 00
368	"	Ashcroft Mfg. Co.....	Indicator springs.....	10 14
369	"	Yale & Towne M'f'g Co.....	Locks and keys.....	4 74
370	"	Eimer & Amend.....	Balance Tubing, etc.....	116 82
371	"	Bausch & Lomb Optical Co.....	Microscope lenses, etc.....	54 78
372	"	Richards & Co.....	Bottles, tubing, etc.....	35 26
373	"	Rochester Optical Co.....	Photographic supplies.....	77 22
374	"	Jones & Laughlin.....	Bolts and iron.....	20 31
375	"	Winslow Bros Co.....	Bronze tablets.....	335 00
376	"	John B. Bennett.....	Contract for tunnels.....	6,882 57
377	"	Putnam Machine Co.....	Lath.....	500 00
378	"	Crane Co.....	Pipe, tees, etc.....	175 30
379	"	Engineering News Pub. Co.....	Advertisement.....	6 88
380	"	A. P. Cunningham & Son.....	Thermometers.....	1 75
381	"	J. C. Vaughan.....	Grass seeds, plants, etc.....	19 43
382	"	Orr & Lockett Hardware Co.....	Hardware.....	8 04
383	"	Sheldon Brick Co.....	Sand.....	5 00
384	"	Champaign Times.....	Printing.....	8 75
385	"	Home Comfort Heat & Plum. Co.....	Pipe.....	19 34
386	"	Union Mfg Co.....	Water, 3 months.....	125 00
387	"	E. Henry.....	Oils, etc.....	6 45
388	"	Hubbard & Sons.....	Sterilizers, nails, etc.....	19 60
389	"	G. E. Stechert.....	Books, etc.....	34 05
390	"	Mittendorf & Kiler.....	Picture frames.....	8 00
391	"	Watson Faulkner.....	Rubber bandages.....	3 75
392	"	Mosler Safe Co.....	Safe.....	42 50
393	"	T. H. Trevelt.....	Sandpaper, etc.....	2 08
394	"	Lawton & Co.....	Duplicator.....	6 37
395	"	Typewriter Emporium.....	Cabinet.....	11 50
396	"	Agricultural Experiment Stat'n	Ditching.....	2 38
397	"	Repair shop, Univ. of Ill.....	Labor and material.....	287 26
398	"	Repair shop, Univ. of Ill.....		1,043 17
399	"	Chem. Laboratory.....	Chemicals, etc.....	79 40
400	"	Mechanical department.....	Labor and material.....	355 27
401	Sept. 15	Richards & Co.....	Chemicals.....	709 16
402	"	The Inter Ocean.....	Advertisement.....	1 35
403	"	Tribune Co.....	"	3 30
404	"	Smalley Mfg Co.....	Cutter and threader.....	108 50
405	"	Crosby St'm Gage & Valve Co.....	Castings.....	4 80
406	"	Chas. T. Wilder.....	Blue prints.....	48 53
407	"	H. Swannell.....	Glass, putty, etc.....	9 56
408	"	W. W. Walls & Co.....	Lumber.....	17 21
409	"	Twin City Electric Co.....	Awnings, etc.....	45 29
410	"	Chas. A. Besore.....	Flooring, etc.....	108 83
411	"	Petty & Sayers.....	Sand.....	15 00
412	"	Wm. J. Bolmer.....	Apparatus.....	14 95
413	"	Fuller & Fuller Co.....	Soda.....	3 25
414	"	Champaign Supply Co.....	Nipples, pipes, etc.....	45 35
415	"	Maltby & Wallace Co.....	Pipe, tees, etc.....	38 11
416	"	D. H. Lloyd & Son.....	Ink.....	2 95
417	"	Jas. B. Clow & Son.....	Pipe.....	27 58
418	"	E. H. Sargent & Co.....	Tube.....	1 03
419	"	A. C. McClurg & Co.....	Stationery, etc.....	98 82
420	"	Chicago Carpet Co.....	Linoleum matting, etc.....	501 80
421	"	Brunswick Balke Collender Co.....	Chairs, desks, etc.....	1,271 75
422	"	Western Union Telegraph Co.....	Telegrams.....	3 68
423	"	O. S. Blakeslee.....	Platinum wire, etc.....	335 50
424	"	J. B. Colt & Co.....	Lantern, etc.....	237 60
425	"	V. W. Shuck.....	Level, etc.....	3 70
426	"	Library Bureau.....	Contract for book stacks.....	300 00
427	"		Contracts for brackets, floors, etc.....	2,750 00
428	"	Gresham & Lloyd.....	Contract for lighting fixtures.....	1,400 00
429	"	F. J. Foote.....	Work on batteries, etc.....	90 85
430	"	E. H. Renner & Bro.....	Work with team.....	10 50
431	"	J. C. Sedgwick.....	Ventilating Military Hall.....	64 00
432	"	Vic Beasley.....	Plastering.....	256 91
433	"	Chicago Times Herald.....	Advertisement.....	31 20
434	"	Chas. Mullendorf.....	Work.....	22 00
435	"	Smith Premier Typewriter Co.....	Typewriter and cabinet.....	138 50
436	"	Wm. Price Estate.....	Contract for paint'g & calcimining.	789 27
437	"	A. F. Moore.....	Balance on horses.....	50 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
438	Sept. 15	Ricker & White	Final payment	\$475 33
439	"	Geo. W. Myers	Expenses	12 73
440	"	Walter H. Jones	"	15 60
441	"	T. R. Leal	Hauling and grading	78 42
442	"	Robinson & Burr	Contract for heating mains	1,450 00
443	"	Ohio Storage Battery Co	Battery cells	224 00
444	"	John B. Bennett	Contract for heating tunnels	910 49
445	"	Armour Institute of Technology	Books	400 00
446	"	LaFayette Lumber Mfg Co.	Locker cases	220 00
447	"	S. W. Shattuck, business m'gr	Expressage	43 2C
448	"	"	Freightage	216 06
449	"	"	Pay roll of students, August, 1897	394 72
450	"	"	Pay roll of men, August, 1897	1,778 47
451	Sept. 30	A. S. Draper	Salary, September, 1897	583 33
452	"	T. J. Burrill	"	200 00
453	"	S. W. Shattuck	"	166 66
454	"	N. C. Ricker	"	191 66
455	"	Ira O. Baker	"	187 50
456	"	S. A. Forbes	"	83 33
457	"	C. W. Rolfe	"	175 00
458	"	D. McIntosh	"	50 00
459	"	A. N. Talbot	"	175 00
460	"	A. W. Palmer	"	175 00
461	"	F. F. Frederick	"	158 33
462	"	S. W. Parr	"	175 00
463	"	H. J. Barton	"	175 00
464	"	Chas. M. Moss	"	175 00
465	"	D. K. Dodge	"	166 66
466	"	L. P. Breckenridge	"	187 50
467	"	David Kinley	"	187 50
468	"	Eugene Davenport	"	91 66
469	"	Arnold Tompkins	"	166 66
470	"	A. P. Carman	"	187 50
471	"	George W. Myers	"	150 00
472	"	Edgar J. Townsend	"	137 50
473	"	E. B. Greene	"	141 66
474	"	G. E. Gardner	"	166 66
475	"	C. C. Pickett	"	125 00
476	"	Katharine Sharp	"	166 66
477	"	Geo. T. Kemp	"	166 66
478	"	James M. White	"	133 33
479	"	L. A. Rhoades	"	141 66
480	"	H. H. Everett	"	133 33
481	"	W. H. Van Dervoort	"	137 50
482	"	W. D. Pence	"	133 33
483	"	Walter H. Jones	"	100 00
484	"	H. S. Grindley	"	108 33
485	"	T. A. Clark	"	133 33
486	"	H. S. Piatt	"	100 00
487	"	B. V. Swenson	"	108 33
488	"	A. H. Daniels	"	108 33
489	"	George D. Fairfield	"	108 33
490	"	Charles W. Tooke	"	108 33
491	"	Fred A. Sager	"	100 00
492	"	William Esty	"	108 33
493	"	Frank Smith	"	100 00
494	"	C. D. McLane	"	100 00
495	"	P. G. Holden	"	54 16
496	"	J. E. McGilvrey	"	108 33
497	"	S. J. Temple	"	100 00
498	"	J. D. Phillips	"	83 33
499	"	Violet D. Jayne	"	125 00
500	"	Mary L. Jones	"	100 00
501	"	Oscar Quick	"	80 00
502	"	Edward J. Lake	"	70 00
503	"	Ella H. Morrison	"	100 00
504	"	George A. Huff	"	120 00
505	"	W. J. Fraser	"	37 50
506	"	Carlton R. Rose	"	80 00
507	"	Joseph C. Blair	"	45 83
508	"	Margaret Mann	"	75 00
509	"	Alison Fernie	"	100 00
510	"	Agnes S Cook	"	70 00
511	"	H. C. Howland	"	80 00
512	"	C. H. Rowell	"	70 00
513	"	Geo. H. Meyer	"	70 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
514	1897. Sept. 30	W. H. Kavanaugh.....	Salary, September, 1896.....	80 00
515	"	John P. Hylan.....	" " " " " " " " " " " "	80 00
516	"	Alice Putnam.....	" " " " " " " " " " " "	80 00
517	"	A. C. Burnham.....	" " " " " " " " " " " "	90 00
518	"	C. F. Hottes.....	" " " " " " " " " " " "	70 00
519	"	W. C. Brenke.....	" " " " " " " " " " " "	75 00
520	"	Jessie Y. Fox.....	" " " " " " " " " " " "	30 00
521	"	G. D. Hubbard.....	" " " " " " " " " " " "	50 00
522	"	H. A. Webber.....	" " " " " " " " " " " "	50 00
523	"	C. V. Seastone.....	" " " " " " " " " " " "	50 00
524	"	E. B. Ketchum.....	" " " " " " " " " " " "	50 00
525	"	Jas. H. McKee.....	" " " " " " " " " " " "	50 00
526	"	H. V. Carpenter.....	" " " " " " " " " " " "	50 00
527	"	John L. Sammis.....	" " " " " " " " " " " "	50 00
528	"	M. B. Hammond.....	" " " " " " " " " " " "	50 00
529	"	C. B. Clark.....	" " " " " " " " " " " "	85 00
530	"	A. R. Curtiss.....	" " " " " " " " " " " "	85 00
531	"	Henry Jones.....	" " " " " " " " " " " "	60 00
532	"	J. H. Wilson.....	" " " " " " " " " " " "	60 00
533	"	D. H. Carnahan.....	" " " " " " " " " " " "	30 00
534	"	H. C. Hobart.....	" " " " " " " " " " " "	30 00
535	"	E. W. Poole.....	" " " " " " " " " " " "	30 00
536	"	F. W. Schacht.....	" " " " " " " " " " " "	30 00
537	"	A. E. Paul.....	" " " " " " " " " " " "	30 00
538	"	A. St. J. Williamson.....	" " " " " " " " " " " "	10 00
539	"	E. G. Howe.....	" " " " " " " " " " " "	150 00
540	"	Lillie A. Clendenin.....	" " " " " " " " " " " "	65 00
541	"	R. S. Douglass.....	" " " " " " " " " " " "	75 00
542	"	C. B. Randolph.....	" " " " " " " " " " " "	70 00
543	"	C. W. Alvord.....	" " " " " " " " " " " "	70 00
544	"	W. L. Pillsbury.....	" " " " " " " " " " " "	162 50
545	"	George W. Graham.....	" " " " " " " " " " " "	100 00
546	"	Lillie Heath.....	" " " " " " " " " " " "	75 00
547	"	Sue W. Ford.....	" " " " " " " " " " " "	55 00
548	"	L. A. Boice.....	" " " " " " " " " " " "	55 00
549	"	W. F. Marker.....	" " " " " " " " " " " "	55 00
550	"	Jennie M. Laffin.....	" " " " " " " " " " " "	45 00
551	"	S. W. Shattuck.....	Salary, 3 months to date.....	100 00
552	"	D. McIntosh.....	Salary, September, 1897.....	75 00
553	"	C. V. Millar.....	" " " " " " " " " " " "	75 00
554	"	R. W. Stark.....	" " " " " " " " " " " "	50 00
555	"	F. J. Foote.....	" " " " " " " " " " " "	75 00
556	"	Joe Morrow.....	" " " " " " " " " " " "	75 00
557	"	E. W. Justus.....	" " " " " " " " " " " "	50 00
558	"	M. T. Lindsey.....	" " " " " " " " " " " "	40 00
559	"	L. H. Allen.....	" " " " " " " " " " " "	40 00
560	"	Richard Uttenweiler.....	" " " " " " " " " " " "	60 00
561	"	Fred Atkinson.....	" " " " " " " " " " " "	35 00
562	"	C. B. Ewalt.....	" " " " " " " " " " " "	25 00
563	"	H. J. East.....	" " " " " " " " " " " "	40 00
564	"	Samuel Morse.....	" " " " " " " " " " " "	25 33
565	"	W. R. Hoffman.....	" " " " " " " " " " " "	37 00
566	"	L. G. Lathrop.....	" " " " " " " " " " " "	32 00
567	"	J. J. Johnson.....	" " " " " " " " " " " "	32 00
568	"	Elbert E. Pound.....	" " " " " " " " " " " "	32 00
569	"	A. S. Golden.....	" " " " " " " " " " " "	32 00
570	"	Allen McLaughlin.....	" " " " " " " " " " " "	32 00
571	"	Philip Schwehm.....	" " " " " " " " " " " "	27 00
572	"	J. Bishop & Co.....	Repairs on platinum ware.....	116 49
573	"	Arthur W. Palmer.....	Expenses.....	12 25
574	"	Fuller & Fuller Co.....	Acids, ammonia, etc.....	68 04
575	"	Cambridge Botanical Supply Co	Covers, papers, etc.....	65 85
576	"	Isaac S. Raymond.....	Expenses to board meeting.....	60 50
577	"	F. M. McKay.....	" " " " " " " " " " " "	22 58
578	"	S. A. Bullard.....	" " " " " " " " " " " "	26 15
579	"	J. E. Armstrong.....	" " " " " " " " " " " "	13 41
580	"	Alex. McLane.....	" " " " " " " " " " " "	131 04
581	"	Wilson, Moore & McIlvaine.....	Legal services.....	50 00
582	"	Isaac Fielding.....	Postage stamps.....	35 00
583	"	W. W. Lindley.....	" " " " " " " " " " " "	50 00
584	"	G. E. Stechert.....	Books.....	60 88
585	"	American Association for the Advancement of Science.....	Subscription.....	1 29
586	"	Goodsell Observatory of Carle- ton College.....	" " " " " " " " " " " "	3 20
587	"	A. C. McClurg & Co.....	Books.....	215 67

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
588	Sept. 30	Twin City Electric Co.....	Gas fixtures.....	\$10 27
589	"	E. Henry.....	Supplies, etc.....	32 35
590	"	The Gazette.....	Printing pamphlets, etc.....	17 90
591	"	Champaign Supply Co.....	Pipe supplies, etc.....	22 01
592	"	G. W. Yates.....	Cloth.....	1 19
593	"	C. & U. Phoenix Telephone Co.	Services to December 15, 1897.....	49 50
594	"	D. E. Harris & Co.....	Services.....	23 00
595	"	W. A. Olmsted Scientific Co.....	Sonometer, coil, etc.....	51 77
596	"	H. P. Harris.....	Mimeograph work.....	10 15
597	"	Empire Steam Laundry.....	Laundry work.....	6 90
598	"	Elmer & Amend.....	Rubber tubing, chemicals, etc.....	86 01
599	"	Baker & Adamson Chemical Co	Acids and filters.....	15 92
600	"	Richards & Co.....	Chemicals.....	374 92
601	"	Eugene Davenport.....	Expenses.....	8 22
602	"	Katharine L. Sharp.....	15 32
603	"	Gere & Philbrick.....	Examination of title.....	12 50
604	"	Lyon & Healy.....	Music stand, etc.....	7 73
605	"	Clayton F. Summy Co.....	Tuning pianos.....	18 00
606	"	Richards & Co.....	Bottles, tubes, etc.....	22 88
607	"	John B. Bennett.....	Cement tops for tables, etc.....	11 00
608	"	Henry Trevett.....	Hardware.....	106 85
609	"	C. N. Clark & Co.....	Labor.....	4 50
610	"	Standard Oil Co.....	Oil.....	10 50
611	"	Chas. A. Besore.....	Lumber.....	359 61
612	"	Hubbard & Sons.....	Hardware, plumbing, etc.....	168 11
613	"	Sheldon Brick Co.....	Sand.....	1 60
614	"	Wm. Price estate.....	Tar oil, etc.....	15 33
615	"	Robinson & Burr.....	Pipe fittings, etc.....	118 70
616	"	R. S. Wilber.....	Drayage.....	65 50
617	"	J. C. Sedgwick.....	Labor.....	20 80
618	"	Mittendorf & Kiler.....	Picture frames.....	15 00
619	"	Champaign Cabinet Co.....	Book case.....	19 50
620	"	H. Swannell.....	Toilet paper, supplies, etc.....	75 30
621	"	Petty & Sayers.....	Oak.....	1 00
622	"	Cunningham Bros.....	Plates, etc.....	9 90
623	"	Wallace Supply Co.....	Radiators.....	82 32
624	"	Walker & Mulliken.....	Chairs.....	27 75
625	"	Chemical Laboratory.....	Chemicals, etc.....	22 81
626	"	Lord & Burnham Co.....	Lights of glass.....	25 54
627	"	T. H. Castor & Co.....	Encyclopedia.....	1 64
628	"	Whitall, Tatum & Co.....	Bottles.....	3 62
629	"	E. Davenport & Co.....	Paper cloth, etc.....	16 79
630	"	Frank W. Dorr.....	Specimens of earthworms.....	4 00
631	"	Carl Fischer.....	Music.....	7 70
632	"	J. Church Co.....	Sheet music.....	23 26
633	"	Yale & Towne Mfg Co.....	Padlocks, keys, etc.....	22 96
634	"	Lawton & Co.....	Duplicators and refilling.....	15 74
635	"	Geo. E. Marshall & Co.....	Record books, etc.....	5 75
636	"	Alex. Nielsen.....	Specimens.....	2 50
637	"	Montgomery Ward & Co.....	Plates.....	3 60
638	"	Chas. H. Besly & Co.....	Steel wire, rods, etc.....	19 56
639	"	Eugene Arnstein.....	Enamels.....	3 73
640	"	E. G. Smith.....	Hook and gauge.....	8 00
641	"	Francke & Schindler.....	Brass screws, etc.....	4 12
642	"	Gross & Delbridge Co.....	Chemicals, etc.....	21 95
643	"	J. B. Colt & Co.....	Objective.....	5 60
644	"	W. W. Walls & Co.....	Cement.....	7 35
645	"	H. M. Dickson Mfg Co.....	Lockers, etc.....	600 75
646	"	J. C. Vaughan.....	Seeds.....	6 55
647	"	E. T. Paul Music Co.....	Music.....	1 00
648	"	S. W. Shattuck, Business Mgr.	Expressage.....	42 30
649	"	"	Freightage.....	87 23
650	"	"	Sundry items.....	94 20
651	Oct. 4	Walsh & Wyeth.....	Contract steam pipe covering.....	1,399 20
652	"	Library Bureau.....	Tables, desks, etc.....	1,349 00
653	"	M. Yeager & Son.....	Contract for central heating plant.....	9,100 00
654	"	W. L. Pillsbury.....	Expenses to board meeting.....	10 84
655	"	McLane & Temple.....	as architects.....	52 15
656	"	Union Mfg Co.....	Water, 3 months, to January 1, 1898.....	125 00
657	"	U. & C. Gas and Electric Co.....	Gas to Sept. 24; motor to Oct. 1; electric lights to Sept. 28.....	487 08
658	"	G. R. Petty & Co.....	Drawing boards.....	33 00
659	"	Knowlton & Bennett.....	Fountain pens, etc.....	5 25
660	"	J. M. Chase.....	Varnishing, etc.....	1 45
661	"	Chester St. John.....	Collecting samples of water.....	1 75
662	"	V. W. Shuck.....	Nails.....	3 90

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
663	Oct. 4	F. S. Webster Co.....	Typewriter ribbons.....	\$2 00
664	"	Miller & Leming.....	Stakes.....	7 00
665	"	L. V. Manspeaker.....	Fish.....	1 85
666	"	Henry J. Green.....	Barometer, etc.....	12 70
667	"	Twin City Electric Co.....	Zinc, etc.....	2 00
668	"	Champaign County Ptg. Co.....	Printing blanks, etc.....	190 75
669	"	Crane Co.....	Pipe and fittings.....	89 58
670	"	James H. Rice Co.....	Lights of glass.....	9 00
671	"	Orr & Lockett Hardware Co.....	Lockers for warerooms, etc.....	369 63
672	"	Public School Pub. Co.....	Advertisement to October 31, 1897.....	12 50
673	"	<i>School News & Prac. Educator</i>	July, Sept. and Oct.....	12 48
674	"	National Tube Works.....	Gate valves, etc.....	25 25
675	"	A. F. Cunningham & Son.....	Tracing cloth, etc.....	13 80
676	"	Chicago Carpet Co.....	Rugs, cushions, etc.....	181 03
677	"	H. E. Scholle & Co.....	Wardrobe and table.....	18 00
678	"	Bausch & Lomb Optical Co.....	Syringes, scissors, etc.....	14 46
679	"	Warner & Swasey.....	Repairs on micrometer.....	5 50
680	"	Machinist Supply Co.....	Brass rod, etc.....	8 89
681	"	Robinson & Burr.....	Weights, etc.....	17 21
682	"	J. B. Colt & Co.....	Carbons.....	3 00
683	"	A. C. McClurg & Co.....	Stationery and supplies.....	208 55
684	"	Gustav E. Stechert.....	Books.....	141 71
685	"	Brunswick-Balke-Collender Co.....	Leather cushions, chairs, tables.....	319 25
686	"	J. E. McGilvrey.....	Expenses.....	22 98
687	"	S. W. Shattuck.....	Petty expenses, etc.....	126 44
688	"	T. I. Mairs.....	Expenses.....	31 17
689	"	W. J. Fraser.....		31 68
690	"	T. R. Leal.....	Hauling, grading, etc.....	59 42
691	"	J. T. Wolcott.....	Work.....	21 40
692	"	Chas. A. Besore.....	Lumber, etc.....	93 72
693	"	T. H. Trevett.....	Hardware.....	12 40
694	"	Champaign Supply Co.....	Pipe, bushings, etc.....	36 17
695	"	C. H. Baddeley.....	Plates, etc.....	10 90
696	"	Thomas Naughton.....	Photos.....	1 70
697	"	Library Bureau.....	Library supplies, etc.....	367 07
698	"	Miller & Leming.....	Seed boxes.....	8 00
699	"	R. R. Bowker.....	Supplies.....	25 00
700	"	Alexander Lumber Co.....	Expenses.....	5 95
701	"	J. E. McGilvrey.....		27 19
702	"	Lucy L. Flower.....	to board meeting.....	63 19
703	"	E. G. Keith.....	Services of clerk 3 months.....	150 00
704	"	Northern Pacific R'y Co.....	Blue prints of railroad construction.....	15 40
705	"	Thomas W. Gleeson.....	Spectrometer.....	74 50
706	"	Ft. Wayne Electric Corporation.....	Motor.....	75 00
707	"	Standard Oil Co.....	Cylinder oil.....	10 64
708	"	A. H. Barber & Co.....	Swing churn, fittings, etc.....	10 20
709	"	Miller Harness Co.....	Wagon, etc.....	46 75
710	"	Champaign Supply Co.....	Belt.....	11 86
711	"	F. Cormack.....	Museum supplies.....	10 00
712	"	Central Union Tel. Co.....	Use of telephones, etc.....	9 35
713	"	Bausch & Lomb Optical Co.....	Microscopes, etc.....	342 33
714	"	Crane Co.....	Valves, packing, etc.....	30 32
715	"	<i>Champaign County Herald</i>	Printing board proceedings, etc.....	119 52
716	"	West Pub. Co.....	Law books.....	182 00
717	"	Fuller & Fuller Co.....	Glue, etc.....	8 39
718	"	<i>The Illini</i>	Subscription.....	125 00
719	"	J. E. Armstrong.....	Expenses to board meeting.....	30 91
720	"	B. V. Swenson.....	Materials, etc.....	18 00
721	"	S. W. Shattuck, business mgr.....	Sundry items.....	61 84
722	"	"	Expressage.....	59 05
723	"	"	Freightage.....	87 74
724	"	"	Pay-rolls of men, September, 1897.....	1,331 64
725	"	"	students.....	378 11
726	Oct. 30	A. S. Draper.....	Salary, October, 1897.....	583 33
727	"	T. J. Burrill.....	"	200 00
728	"	S. W. Shattuck.....	"	166 66
729	"	N. C. Ricker.....	"	191 66
730	"	I. O. Baker.....	"	187 50
731	"	S. A. Forbes.....	"	83 33
732	"	C. W. Rolfe.....	"	175 00
733	"	D. McIntosh.....	"	50 00
734	"	A. N. Talbot.....	"	175 00
735	"	A. W. Palmer.....	"	175 00
736	"	F. F. Frederick.....	"	158 33
737	"	S. W. Parr.....	"	175 00
738	"	H. J. Barton.....	"	175 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
739	1897.			
740	Oct.,	C. M. Moss.....	Salary, October, 1897	\$175 00
741	"	D. K. Dodge.....	"	166 66
742	"	L. P. Breckenridge ..	"	187 50
743	"	D. Kinley.....	"	187 50
744	"	E. Davenport.....	"	91 66
745	"	A. Tompkins.....	"	166 66
746	"	A. P. Carman.....	"	187 50
747	"	W. H. Jones.....	"	100 00
748	"	E. B. Greene.....	"	141 66
749	"	G. E. Giesher.....	"	166 66
750	"	C. C. Pickett.....	"	125 00
751	"	Katharine L. Sharp....	"	166 66
752	"	G. T. Kemp.....	"	166 66
753	"	Geo. W. Myers.....	"	100 00
754	"	E. J. Townsend.....	"	130 00
755	"	J. M. White.....	"	133 33
756	"	L. A. Rhoades.....	"	141 66
757	"	H. H. Everett.....	"	187 50
758	"	W. H. VanDervoort....	"	133 33
759	"	W. D. Pence.....	"	133 33
760	"	H. S. Grindley.....	"	108 33
761	"	T. A. Clark.....	"	133 33
762	"	H. S. Piatt.....	"	100 00
763	"	B. V. Swenson.....	"	108 33
764	"	A. H. Daniels.....	"	108 33
765	"	Geo. D. Fairfield.....	"	108 33
766	"	C. W. Tooke.....	"	100 00
767	"	F. A. Sager.....	"	108 33
768	"	Wm. Esty.....	"	100 00
769	"	Frank Smith.....	"	100 00
770	"	C. D. McLane.....	"	100 00
771	"	P. G. Holden.....	"	54 16
772	"	J. E. McGilvrey.....	"	108 33
773	"	S. J. Temple.....	"	83 33
774	"	J. D. Phillips.....	"	83 33
775	"	Violet D. Jayne.....	"	100 00
776	"	Mary L. Jones.....	"	80 00
777	"	Oscar Quick.....	"	125 00
778	"	E. J. Lake.....	"	100 00
779	"	Ella H. Morrison.....	"	70 00
780	"	Geo. A. Huff.....	"	130 00
781	"	C. R. Rose.....	"	37 50
782	"	J. C. Blair.....	"	80 00
783	"	Margaret Mann.....	"	45 83
784	"	Allison M. Fernie.....	"	75 00
785	"	Agnes S. Cook.....	"	100 00
786	"	A. C. Howland.....	"	70 00
787	"	Chester H. Rowell.....	"	80 00
788	"	H. Meyer.....	"	70 00
789	"	W. H. Kavanaugh.....	"	80 00
790	"	J. P. Hylan.....	"	80 00
791	"	Alice Furnam.....	"	80 00
792	"	A. C. Burnham.....	"	70 00
793	"	Chas. F. Hoffes.....	"	75 00
794	"	W. C. Brenke.....	"	30 00
795	"	Jessie Y. Fox.....	"	50 00
796	"	J. H. McKee.....	"	50 00
797	"	G. D. Hubbard.....	"	50 00
798	"	H. A. Webber.....	"	50 00
799	"	C. V. Seastone.....	"	50 00
800	"	R. B. Ketchum.....	"	50 00
801	"	H. V. Carpenter.....	"	50 00
802	"	J. L. Hammis.....	"	50 00
803	"	M. B. Hammond.....	"	50 00
804	"	Anna Fossler.....	"	50 00
805	"	C. B. Clark.....	"	50 00
806	"	A. R. Curtiss.....	"	85 00
807	"	Henry Jones.....	"	85 00
808	"	J. H. Wilson.....	"	60 00
809	"	D. H. Carnahan.....	"	60 00
810	"	A. C. Hobart.....	"	30 00
811	"	E. W. Poole.....	"	30 00
812	"	F. W. Schacht.....	"	30 00
813	"	A. E. Paul.....	"	30 00
814	"	Don Sweeney.....	"	30 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
815	Oct. 30	A. St. John Williamson.....	Salary, October, 1897.....	\$10 00
816	"	E. G. Howe.....	" " " " " " " " " "	150 00
817	"	Lillie A. Clendenin.....	" " " " " " " " " "	65 00
818	"	R. S. Douglass.....	" " " " " " " " " "	75 00
819	"	C. B. Randolph.....	" " " " " " " " " "	70 00
820	"	C. W. Alvord.....	" " " " " " " " " "	70 00
821	"	W. L. Pillsbury.....	" " " " " " " " " "	162 50
822	"	Geo. W. Graham.....	Services, October, 1897.....	100 00
823	"	Lillie Heath.....	" " " " " " " " " "	75 00
824	"	Sue W. Ford.....	" " " " " " " " " "	55 00
825	"	L. A. Boice.....	" " " " " " " " " "	55 00
826	"	W. F. Marker.....	" " " " " " " " " "	55 00
827	"	Jennie M. Ladin.....	" " " " " " " " " "	45 00
828	"	Georgia E. Hopper.....	" " " " " " " " " "	30 00
829	"	Adelaide M. Chase.....	" " " " " " " " " "	25 00
830	"	Leo C. Smith.....	" " " " " " " " " "	20 00
831	"	C. V. Millar.....	Water survey, October, 1897.....	75 00
832	"	R. W. Stark.....	" " " " " " " " " "	50 00
833	"	F. J. Foote.....	Services, October, 1897.....	75 00
834	"	Joe Morrow.....	" " " " " " " " " "	75 00
835	"	F. W. Justis.....	" " " " " " " " " "	50 00
836	"	W. H. Zimmerman.....	" " " " " " " " " "	50 00
837	"	M. T. Lindsey.....	" " " " " " " " " "	40 00
838	"	I. H. Allen.....	" " " " " " " " " "	40 00
839	"	Richard Uttenweiler.....	" " " " " " " " " "	60 00
840	"	Fred Atkinson.....	" " " " " " " " " "	35 00
841	"	Chas. B. Ewalt.....	" " " " " " " " " "	25 00
842	"	D. McIntosh.....	Salary, October, 1897.....	75 00
843	"	Henry J. East.....	" " " " " " " " " "	40 00
844	"	Samuel Morse.....	" " " " " " " " " "	40 00
845	"	W. R. Hoffman.....	" " " " " " " " " "	37 00
846	"	L. G. Lathrop.....	" " " " " " " " " "	32 00
847	"	J. J. Johnson.....	" " " " " " " " " "	32 00
848	"	E. E. Pound.....	" " " " " " " " " "	32 00
849	"	A. S. Golden.....	" " " " " " " " " "	32 00
850	"	Allen McLaughlin.....	" " " " " " " " " "	32 00
851	"	Philip Schwehm.....	" " " " " " " " " "	27 00
852	"	E. A. Nelson.....	" " " " " " " " " "	32 00
853	"	C. C. Adams.....	Collecting class material.....	25 00
854	"	Watson Faulkner.....	Alcohol.....	5 15
855	"	Warner & Swasey.....	Collimater, etc.....	150 00
856	"	James C. Biddle.....	Chronograph, etc.....	495 40
857	"	G. W. Sheldon & Co.....	Ocean freight, etc.....	25 20
858	"	John Gayner.....	Fruit jar.....	18 00
859	"	R. B. Bowker.....	Subscription.....	3 00
860	"	F. B. Stevens.....	Plumbago, tools, etc.....	9 76
861	"	Narragansett Machine Co.....	Scales, etc.....	122 20
862	"	Wm. J. Bohm.....	Glass cylinder.....	6 75
863	"	Chas. A. Schieren & Co.....	Belt.....	14 24
864	"	D. Appleton & Co.....	Books.....	6 65
865	"	Geo. W. Southwick & Co.....	Wire belt lacing.....	8 15
866	"	Maltby & Wallace Co.....	Pine and cherry lumber.....	60 40
867	"	Boston Musical Instrument Mfg.....	Horn.....	43 20
868	"	Chas. H. Besly & Co.....	Files, rods, etc.....	23 98
869	"	Baker & Adamson Chemical Co.....	Nitric and muriatic acids.....	68 90
870	"	J. C. Vaughn.....	Seeds.....	18 74
871	"	Odin Coal Co.....	Coal.....	321 10
872	"	Jones & Laughlins.....	Iron.....	15 20
873	"	Alexander Lumber Co.....	Lumber.....	26 79
874	"	L. P. Breckenridge.....	Services as engineer.....	400 00
875	"	E. B. Greene.....	Books.....	13 00
876	"	Geo. E. Marshall & Co.....	Index Book.....	1 25
877	"	Yale & Towne Manufact'ng Co.....	Refitting keys, etc.....	3 55
878	"	Walker & Mulliken.....	Picture frames.....	6 00
879	"	Sweet, Wallach & Co.....	Photograph supplies.....	10 94
880	"	Eimer & Amend.....	Scales, etc.....	12 87
881	"	G. Cramer Dry Plate Works.....	Plates.....	13 04
882	"	Kariher Grocery Co.....	Jars, etc.....	43 06
883	"	Norton Emery Wheel Co.....	Emery wheels.....	16 40
884	"	Cleveland Twist Drill Co.....	Drills.....	10 10
885	"	Allerton, Clarke & Co.....	Files, etc.....	12 92
886	"	Henry E. Worthington.....	Plunger, ring, etc.....	2 75
887	"	Twin City Electric Co.....	Shades, etc.....	16 20
888	"	Westcott Chuck Co.....	Chucks.....	19 00
889	"	Riehle Bros. Testing Mach. Co.....	Gravity apparatus.....	11 00
890	"	Electric Appliance Co.....	Wire.....	49 55

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
891	Oct. 30	Burrows Bros. Company.....	Books.....	\$28 00
892	"	Knowlton & Bennett.....	Tracing cloth, etc.....	6 35
893	"	Charles A. Bescre.....	Lumber.....	94 98
894	"	<i>The Gazette</i>	Printing and binding.....	77 40
895	"	D. H. Lloyde & Son.....	Note covers, etc.....	21 94
896	"	Library Bureau.....	Extra stairway, stacks, etc.....	442 04
897	"	Orr & Lockett Hardware Co.....	Sash, sockets, etc.....	9 05
898	"	Robinson & Burr.....	Fittings, etc.....	103 21
899	"	Mittendorf & Kiler.....	Wardrobe, baskets, etc.....	46 80
900	"	J. E. McGilvrey.....	Expenses visiting schools.....	43 73
901	Nov. 4	Edward Gleason.....	Final payment as sub-contractor.....	4,850 00
902	"	H. M. R. Construction Co.....	on contract.....	650 00
903	"	Library Bureau.....	Contract book stacks, etc.....	250 00
904	"	John B. Bennett.....	Final payment on tunnels, etc.....	80 10
905	"	Schipper & Block Carpet Co.....	Contract for window shades.....	198 87
906	"	T. R. Leal.....	Cutting trees, hauling, etc.....	115 40
907	"	Walsh & Henck.....	Contract for plumbing in gymnas'm	100 00
908	"	E. Barr.....	conservatory.....	241 10
909	"	A. P. Carman.....	Expenses.....	10 76
910	"	M. Yeager & Son.....	Contract for heating plant.....	9,750 00
911	"	John W. Stipes.....	Street paving.....	1,800 00
912	Nov. 15	S. A. Bullard.....	Expenses.....	25 10
913	"	Yale & Towne Manufacturing Co.....	Keys.....	6 54
914	"	Walch & Wyeth.....	Pipe coverings.....	4 08
915	"	T. R. Leal.....	Hauling, moving, etc.....	42 12
916	"	Sangamon Coal Co.....	Coal.....	130 00
917	"	Twin City Electric Co.....	Labor and material on transformers	27 55
918	"	Urbana & Champaign Elect. Lt. Ry. Co.....	Cedar poles, etc.....	20 06
919	"	M. C. Lilley & Co.....	Bugle.....	5 00
920	"	Charles H. Besly & Co.....	Steel gauges.....	2 85
921	"	Eugene Dietzgen Co.....	Paper cloth.....	11 76
922	"	Fuller & Fuller Co.....	Corks, etc.....	23 95
923	"	Price's Pharmacy.....	Sulphur, etc.....	1 10
924	"	Callaghan & Co.....	Law books.....	2,532 25
925	"	Crane Company.....	Bushings, nipples, etc.....	52 97
926	"	Chas. A. Hart.....	Expenses.....	32 11
927	"	H. E. Summers.....	".....	56 96
928	"	E. Harlen Scott.....	".....	4 70
929	"	Eimer & Amend.....	Tubes, rubber stoppers.....	26 97
930	"	Prang Educational Co.....	Colored card-board.....	3 39
931	"	M. Lowenstern & Son.....	Oil cloth.....	1 60
932	"	Jones & Laughlins.....	Steel, bolts, etc.....	22 94
933	"	Flather & Company.....	Repairs on lathe.....	3 75
934	"	E. Henry.....	Gasoline, oils, etc.....	6 60
935	"	Wm. Miebach & Co.....	Copper, etc.....	1 15
936	"	<i>Champaign County Herald</i>	Paper.....	16 75
937	"	Wm. Price Estate.....	Shades and hanging.....	3 80
938	"	Thomas Naughton.....	Photographs.....	3 00
939	"	<i>The Gazette</i>	Printing.....	4 20
940	"	E. T. Paul Music Co.....	Music.....	1 18
941	"	Lyon & Healy.....	Band folios.....	4 15
942	"	Boston Musical Inst. Co.....	Horn.....	35 50
943	"	Carl Fisher.....	Music.....	8 59
944	"	Ira O. Baker.....	Expenses.....	3 81
945	"	American Architect & Build. News Co.....	Subscription.....	4 00
946	"	Kenyon News & Postal Sub.Co.....	Markers, etc.....	24 35
947	"	W. F. John Barnes Co.....	Emery tools, etc.....	65 00
948	"	National Brick Mfg Ass'n.....	Copy of publication.....	1 00
949	"	L. Manasse.....	Slides from photographs.....	11 75
950	"	National Sewer Pipe Co.....	Sewer pipe.....	33 61
951	"	Tinius Olsen & Co.....	Micrometer.....	75 00
952	"	Central Ill. Slate Roofing Co.....	Slating, labor, etc.....	45 95
953	"	J. D. Green.....	Moulding, etc.....	2 50
954	"	T. H. Trevett.....	Mantel, grate, etc.....	35 00
955	"	C. J. Sabin.....	Rent of tarpaulins and coal.....	17 50
956	"	Westinghouse Elect. & Mfg Co.....	Watt meter, etc.....	107 88
957	"	Charles T. Wilder.....	Blue prints.....	44 46
958	"	Geo. E. Martin.....	Fire screens.....	8 00
959	"	Charles A. Besore.....	Lumber, etc.....	160 48
960	"	James B. Clow & Son.....	Pipe and fittings.....	300 40
961	"	Robinson & Burr.....	Pipe, lead.....	7 20
962	"	Bausch & Lomb Optical Co.....	Microscopes, filters, etc.....	132 99
963	"	Office Specialty Mfg Co.....	Shannon files.....	6 67
964	"	Pittsburg Reduction Co.....	Aluminum wire.....	10 07

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
965	Nov. 15	J. Bishop & Co.....	Remodeling platinum ware.....	\$94 69
966	"	J. S. Ford Johnson & Co.....	Furniture.....	45 49
967	"	Gross & Delbridge Co.....	Stethoscope, bandages, etc.....	15 00
968	"	Narragansett Machine Co.....	Basket balls.....	18 00
969	"	Indiana Engineering Society ..	Advertisement.....	6 00
970	"	G. C. Willis.....	Calico, cheese cloth, etc.....	31 43
971	"	B. T. Batsford.....	Books.....	149 87
972	"	Lechtertier Barbe.....	Art studies.....	25 12
973	"	Geo. Rowney & Co.....	Studies.....	15 11
974	"	Bernh Liebisch.....	Books.....	10 85
975	"	Dr F. Krantz.....	Chemical apparatus.....	155 49
976	"	Newton A. Wells.....	Contract, decorating library.....	1,069 21
977	"	Gresham & Lloyd.....	lighting fixtures, etc.....	210 55
978	"	Carl Fischer.....	Music.....	12 80
979	"	Mittendorf & Kiler.....	Burlap, frames, etc.....	44 88
980	"	W. M. Hinton.....	Use of calf.....	2 00
981	"	<i>School News & Pract. Educator</i>	Advertisement.....	12 48
982	"	Eugene Dietzgen & Co.....	Beam compass, etc.....	27 41
983	"	Armour Institute.....	Book and sorting tray.....	4 20
984	"	Western News Co.....	Subscription.....	3 27
985	"	George Allen.....	Ram.....	30 00
986	"	Brunswick Balke Collender Co.	Oak desks and chairs.....	318 35
987	"	A. H. Andrews Co.....	Castings, etc.....	2 12
988	"	Geo. W. Hoffman.....	Metal polish, etc.....	2 00
989	"	Mandel Bros.....	Rugs.....	118 58
990	"	Marshall Field & Co.....	Pillows, etc.....	12 65
991	"	J. L. Kerr.....	Mason and materials furnished	101 28
992	"	J. C. Blair.....	Expense.....	19 30
993	"	E. H. Renner & Bro.....	Hauling coal, etc.....	107 92
994	"	W. W. Lindley.....	Postage stamps.....	30 00
995	"	Ozias Riley.....	69 00
996	"	S. W. Shattuck, Business Mgr.	Sundry items.....	73 55
997	"	"	Expressage.....	99 29
998	"	"	Freightage.....	123 37
999	"	"	Pay-rolls of men October, 1897.....	1,479 50
1000	"	"	students October, 1897.....	219 00
1001	Nov. 30	A. S. Draper.....	Salary, November, 1897.....	533 33
1002	"	T. J. Burrill.....	"	200 00
1003	"	S. W. Shattuck.....	"	166 66
1004	"	N. C. Ricker.....	"	191 66
1005	"	Ira O. Baker.....	"	187 50
1006	"	S. A. Forbes.....	"	83 33
1007	"	C. W. Rolfe.....	"	175 00
1008	"	D. McIntosh.....	"	50 00
1009	"	A. N. Talbot.....	"	175 00
1010	"	A. W. Palmer.....	"	175 00
1011	"	F. F. Frederick.....	"	158 33
1012	"	S. W. Parr.....	"	175 00
1013	"	H. J. Barton.....	"	175 00
1014	"	Chas. M. Moss.....	"	175 00
1015	"	D. K. Dodge.....	"	166 66
1016	"	L. P. Breckenridge.....	"	187 50
1017	"	David Kinley.....	"	187 50
1018	"	Eugene Davenport.....	"	91 66
1019	"	Arnold Tompkins.....	"	166 66
1020	"	A. P. Carman.....	"	187 50
1021	"	Walter H. Jones.....	"	100 00
1022	"	E. B. Greene.....	"	141 66
1023	"	G. E. Gardner.....	"	166 66
1024	"	C. C. Pickett.....	"	125 00
1025	"	Katharine L. Sharp.....	"	166 66
1026	"	Geo. T. Kemp.....	"	166 66
1027	"	Geo. W. Myers.....	"	150 00
1028	"	Edgar J. Townsend.....	"	137 50
1029	"	Jas. M. White.....	"	133 33
1030	"	Lewis A. Rhoades.....	"	141 66
1031	"	Henry H. Everett.....	"	133 33
1032	"	Wm. H. Van Dervoort.....	"	137 50
1033	"	W. D. Pence.....	"	133 30
1034	"	H. S. Grindley.....	"	108 33
1035	"	T. A. Clark.....	"	133 33
1036	"	H. S. Piatt.....	"	100 00
1037	"	B. V. Swensen.....	"	108 33
1038	"	A. H. Daniels.....	"	108 33
1039	"	Geo. D. Fairfield.....	"	108 33
1040	"	Chas. W. Tooke.....	"	108 33

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1041	Nov. 30	Fred A. Sager.....	Salary, November, 1897.....	100 00
1042	"	Wm. Esty.....	"	108 33
1043	"	Frank Smith.....	"	100 00
1044	"	C. D. McLane.....	"	100 00
1045	"	P. G. Holden.....	"	54 16
1046	"	J. E. McGilvrey.....	"	168 33
1047	"	S. J. Temple.....	"	100 00
1048	"	J. D. Phillips.....	"	83 33
1049	"	Violet D. Jayne.....	"	125 00
1050	"	Mary L. Jones.....	"	100 00
1051	"	Oscar Quick.....	"	80 00
1052	"	Edward J. Lake.....	"	70 00
1053	"	Ells H. Morrison.....	"	100 00
1054	"	Geo. A. Huff.....	"	120 00
1055	"	W. J. Fraser.....	"	37 50
1056	"	Carlton R. Rose.....	"	80 00
1057	"	Joseph C. Blair.....	"	45 83
1058	"	Margaret Mann.....	"	75 00
1059	"	Alison M. Fernie.....	"	100 00
1060	"	Agnes S. Cook.....	"	70 00
1061	"	A. C. Howland.....	"	80 00
1062	"	Chester A. Rowell.....	"	70 00
1063	"	G. H. Meyer.....	"	70 00
1064	"	W. H. Kavanaugh.....	"	80 00
1065	"	J. P. Hylan.....	"	80 00
1066	"	Alice Putnam.....	"	80 00
1067	"	A. C. Burnham.....	"	90 00
1068	"	Chas. F. Hottes.....	"	70 00
1069	"	W. C. Brenke.....	"	75 00
1070	"	Jessie Y. Fox.....	"	30 00
1071	"	Jas. H. McKee.....	"	50 00
1072	"	Geo. D. Hubbard.....	"	50 00
1073	"	H. A. Webber.....	"	50 00
1074	"	C. V. Seastone.....	"	50 00
1075	"	R. B. Ketchum.....	"	50 00
1076	"	H. V. Carpenter.....	"	50 00
1077	"	J. L. Sammis.....	"	50 00
1078	"	M. B. Hammond.....	"	50 00
1079	"	Anna Fossler.....	"	50 00
1080	"	C. B. Clark.....	"	85 00
1081	"	A. R. Curtiss.....	"	85 00
1082	"	Henry Jones.....	"	60 00
1083	"	J. H. Wilson.....	"	60 09
1084	"	D. H. Carnahan.....	"	30 00
1085	"	A. C. Hobart.....	"	30 00
1086	"	E. W. Poole.....	"	30 00
1087	"	F. W. Schacht.....	"	30 00
1088	"	E. E. Paul.....	"	30 00
1089	"	Don Sweeney.....	"	30 00
1090	"	A. St. J. Williamson.....	"	10 00
1091	"	Edward G. Howe.....	"	150 00
1092	"	Lillie A. Clendenin.....	"	65 00
1093	"	R. S. Douglass.....	"	75 08
1094	"	C. B. Randolph.....	"	70 00
1095	"	C. W. Alvord.....	"	70 00
1096	"	W. L. Pillsbury.....	"	162 50
1097	"	Geo. W. Graham.....	"	100 00
1098	"	Lillie Heath.....	"	75 00
1099	"	Sue W. Ford.....	"	55 00
1100	"	L. A. Boice.....	"	55 00
1101	"	W. F. Marker.....	"	55 00
1102	"	Jennie M. Laffin.....	"	45 00
1103	"	Georgia E. Hopper.....	"	30 00
1104	"	Adelaide M. Chase.....	"	25 00
1105	"	A. W. Palmer.....	3 months to date.....	25 00
1106	"	C. V. Millar.....	November, 1897.....	75 00
1107	"	R. W. Stark.....	"	50 00
1108	"	F. J. Foote.....	"	75 00
1109	"	Joe Morrow.....	"	75 00
1110	"	E. W. Justus.....	"	50 00
1111	"	W. H. Zimmerman.....	"	50 00
1112	"	M. T. Lindsey.....	"	40 00
1113	"	I. H. Allen.....	"	40 00
1114	"	R. Uttenweiler.....	"	60 00
1115	"	Fred Atkinson.....	"	35 00
1116	"	C. B. Ewalt.....	"	25 00
1117	"	D. McIntosh.....	"	75 00
1118	"	H. J. East.....	"	40 00
1119	"	Samuel Morse.....	"	40 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1120	Nov. 30	W. R. Hoffman.....	Salary, November, 1897.....	\$37 00
1121	" "	L. G. Lathrop.....	" " " "	32 00
1122	" "	J. J. Johnson.....	" " " "	32 00
1123	" "	E. E. Pound.....	" " " "	32 00
1124	" "	A. S. Golden.....	" " " "	32 00
1125	" "	Allen McGlaughlin.....	" " " "	32 00
1126	" "	E. A. Nelson.....	" " " "	32 00
1127	" "	Philip Schwehr.....	" " " "	27 00
1128	" "	E. Barr.....	Contract masonry foundation.....	564 00
1129	" "	T. R. Leal.....	Grading and hauling.....	69 47
1130	" "	C. C. Adams.....	Collecting class materials, etc.....	31 60
1131	" "	W. A. Olmsted Scientific Co.....	Hydrometer, etc.....	6 82
1132	" "	Gustav E. Stechert.....	Books.....	79 03
1133	" "	B. V. Swenson.....	Indicator coil, etc.....	98 00
1134	" "	Municipal Engineering Co.....	Subscription to Dec. 1, 1898.....	2 00
1135	" "	<i>Engineering Record.</i>	" " " " 31, 1898.....	5 00
1136	" "	Engineering News Pub. Co.....	" " " "	4 00
1137	" "	Robinson & Burr.....	Pipe supplies, etc.....	6 72
1138	" "	Charles A. Besore.....	Lumber.....	72 23
1139	" "	J. R. Greenhalch.....	Lamp.....	1 00
1140	" "	J. A. Parker & Son.....	Muslin.....	1 88
1141	" "	Crane & Co.....	Waste.....	7 56
1142	" "	Detroit Twist Drill Co.....	Drills.....	18 86
1143	" "	Medart Patent Pulley Co.....	Pulleys.....	6 80
1144	" "	Hubbard & Sons.....	Plumbing and materials.....	13 60
1145	" "	Smith & Webster.....	Slate base.....	27 80
1146	" "	Twin City Electric Co.....	Batteries, sockets, etc.....	11 95
1147	" "	Engineering News Pub. Co.....	Advertisement to Dec. 16, 1897.....	6 88
1148	" "	C. Hunt.....	Paints, oils, etc.....	3 95
1149	" "	Library Bureau.....	Catalogue slips, etc.....	43 25
1150	" "	George Martin.....	Fire screens.....	8 00
1151	" "	National Water Tube Boiler Co.....	Contract for boilers.....	1,624 00
1152	" "	Lord & Burnham.....	" " superstructure.....	1,355 89
1153	" "	Walsh & Heuck.....	" " plumbing.....	788 00
1154	" "	A. S. Draper.....	Expenses, six months.....	72 56
1155	" "	M. E. Jones.....	Cow and heifer.....	400 00
1156	" "	Hubbard & Sons.....	Contract for iron pipe, valves, etc.....	923 48
1157	" "	Carmichael & Andrews.....	" " bridge.....	500 00
1158	Dec. 20	J. E. McGilvrey.....	Expenses visiting schools.....	76 38
1159	" "	W. L. Pillsbury.....	Expenses.....	15 70
1160	" "	E. H. Renner & Bro.....	Hauling coal, etc.....	68 50
1161	" "	W. W. Lindley.....	Postage stamps.....	60 00
1162	" "	F. M. McKay.....	Expenses.....	43 08
1163	" "	Alex McLane.....	" "	61 11
1164	" "	S. A. Bullard.....	" "	12 25
1165	" "	J. E. Armstrong.....	" "	13 16
1166	" "	N. B. Morrison.....	" "	166 20
1167	" "	Isaac S. Raymond.....	" "	26 70
1168	" "	Thomas J. Smith.....	" "	13 50
1169	" "	T. R. Leal.....	Hauling, filling ditch, etc.....	80 25
1170	" "	S. W. Shattuck, business mgr.....	Taxes on Minnesota lands.....	287 95
1171	" "	" " " "	Expressage.....	68 60
1172	" "	" " " "	Freightage.....	325 04
1173	" "	" " " "	Sundry items.....	188 46
1174	" "	" " " "	Pay rolls of students, Nov'mbr, 1897.....	221 02
1175	" "	" " " "	Pay rolls of men, November, 1897.....	1,010 23
1176	Dec. 31	A. S. Draper.....	Salary for December, 1897.....	583 33
1177	" "	T. J. Burrill.....	" "	200 00
1178	" "	S. W. Shattuck.....	" "	166 66
1179	" "	N. C. Ricker.....	" "	191 66
1180	" "	I. O. Baker.....	" "	187 50
1181	" "	S. A. Forbes.....	" "	83 33
1182	" "	C. W. Rolfe.....	" "	175 00
1183	" "	D. McIntosh.....	" "	50 00
1184	" "	A. N. Talbot.....	" "	175 09
1185	" "	A. W. Palmer.....	" "	175 00
1186	" "	F. F. Frederick.....	" "	158 33
1187	" "	S. W. Parr.....	" "	175 00
1188	" "	H. J. Barton.....	" "	175 00
1189	" "	Chas. M. Moss.....	" "	175 00
1190	" "	D. K. Dodge.....	" "	166 66
1191	" "	L. P. Breckenridge.....	" "	187 50
1192	" "	David Kinley.....	" "	187 50
1193	" "	Eugene Davenport.....	" "	91 66
1194	" "	Arnold Tompkins.....	" "	166 66
1195	" "	A. P. Carman.....	" "	187 50
1196	" "	W. H. Jones.....	" "	100 00
1197	" "	E. B. Greene.....	" "	141 66

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1198	1897.			
1198	Dec. 31	G. E. Gardner	Salary, December, 1897	\$166 66
1199	"	C. C. Pickett	"	125 00
1200	"	Katharine L. Sharp	"	166 66
1201	"	George T. Kemp	"	166 66
1202	"	Geo. W. Myers	"	150 00
1203	"	Edgar J. Townsend	"	137 50
1204	"	James M. White	"	133 33
1205	"	Lewis A. Rhoades	"	141 66
1206	"	H. H. Everett	"	133 33
1207	"	Wm. H. Van Dervoort	"	137 50
1208	"	W. D. Pence	"	133 33
1209	"	H. S. Grindley	"	108 33
1210	"	T. A. Clark	"	133 33
1211	"	H. S. Piatt	"	100 00
1212	"	B. V. Swenson	"	108 33
1213	"	A. H. Daniels	"	108 33
1214	"	Geo. D. Fairfield	"	108 33
1215	"	Chas. W. Tooke	"	108 33
1216	"	Fred A. Sager	"	100 00
1217	"	William Esty	"	108 33
1218	"	Frank Smith	"	100 00
1219	"	C. D. McLane	"	100 00
1220	"	P. G. Holden	"	54 16
1221	"	J. E. McGilvrey	"	108 33
1222	"	Seth J. Temple	"	100 00
1223	"	J. D. Phillips	"	83 33
1224	"	Violet D. Jayne	"	125 00
1225	"	Mary L. Jones	"	100 00
1226	"	Oscar Quick	"	80 00
1227	"	Edward J. Lake	"	70 00
1228	"	Ella H. Morrison	"	100 00
1229	"	Geo. A. Huff	"	120 00
1230	"	W. J. Fraser	"	37 50
1231	"	Carlton R. Rose	"	80 00
1332	"	Joseph C. Blair	"	45 83
1233	"	Margaret Mann	"	75 00
1234	"	Alison M. Fernie	"	100 00
1235	"	Agnes S. Cook	"	70 00
1236	"	A. C. Howland	"	80 00
1237	"	Chester H. Rowell	"	70 00
1238	"	George H. Meyer	"	70 00
1239	"	W. H. Kavanaugh	"	80 00
1240	"	J. P. Hylan	"	80 00
1241	"	Alice Putnam	"	80 00
1242	"	A. C. Burnham	"	90 00
1243	"	Chas. F. Hottes	"	70 00
1244	"	W. C. Brenke	"	75 00
1245	"	Jessie Y. Fox	"	30 00
1246	"	Jas. H. McKee	"	50 00
1247	"	Geo. D. Hubbard	"	50 00
1248	"	H. A. Webber	"	50 00
1249	"	C. V. Seastone	"	50 00
1250	"	R. B. Ketchum	"	50 00
1251	"	H. V. Carpenter	"	50 00
1252	"	J. L. Sammis	"	50 00
1253	"	M. B. Hammond	"	50 00
1254	"	Anna Fossler	"	50 00
1255	"	C. B. Clark	"	85 00
1256	"	A. R. Curtiss	"	85 00
1257	"	Henry Jones	"	60 00
1258	"	J. H. Wilson	"	60 00
1259	"	D. H. Carnahan	"	30 00
1260	"	A. C. Hobart	"	30 00
1261	"	E. W. Poole	"	30 00
1262	"	F. W. Schacht	"	30 00
1263	"	A. E. Paul	"	30 00
1264	"	Don Sweney	"	30 00
1265	"	A. St. J. Williamson	"	10 00
1266	"	Edward G. Howe	"	150 00
1267	"	Lillie A. Clendenin	"	65 00
1268	"	R. S. Douglass	"	75 00
1269	"	C. B. Randolph	"	70 00
1270	"	C. W. Alvord	"	70 00
1271	"	W. L. Pillsbury	"	162 50
1272	"	S. W. Shattuck	Salary, 3 months, to date	100 00
1273	"	Geo. W. Graham	Salary for services, December, 1897	100 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1274	1897.			
	Dec.	31		
1274	Dec.	Lillie Heath	Salary for services, December, 1897	\$75 00
1275	"	Sue W. Ford	"	55 00
1276	"	L. A. Boice	"	55 00
1277	"	W. F. Marker	"	55 00
1278	"	Jennie M. Laßin	"	45 00
1279	"	Georgia E. Hopper	"	30 00
1280	"	Adelaide M. Chase	"	25 00
1281	"	F. J. Foote	"	75 00
1282	"	Joe Morrow	"	75 00
1283	"	E. W. Justus	"	50 00
1284	"	W. H. Zimmerman	"	50 00
1285	"	M. T. Lindsey	"	40 00
1286	"	I. H. Allen	"	40 00
1287	"	Richard Uttenweiler	"	60 00
1288	"	Fred Atkinson	"	35 00
1289	"	C. B. Ewalt	"	25 00
1290	"	Henry J. East	"	40 00
1291	"	W. R. Hoffman	"	37 00
1292	"	L. G. Lathrop	"	32 00
1293	"	J. J. Johnson	"	32 00
1294	"	E. E. Pond	"	32 00
1295	"	A. B. Golden	"	32 00
1296	"	Allen McGlaughlin	"	32 00
1297	"	E. A. Nelson	"	32 00
1298	"	Philip Schwelm	"	27 00
1299	"	D. McIntosh	"	75 00
1300	"	C. V. Millar	Salary for December, 1897	75 00
1301	"	R. W. Stark	Salary for services, December, 1897	50 00
1302	"	Chas. H. Mears & Co.	Lumber	200 84
1303	"	P. E. Taintor	Cement floor and walks	185 80
1304	"	Walcott, Webster Mfg. Co.	Shower apparatus	38 50
1305	"	R. R. Bowker	Publications	9 00
1306	"	<i>New York Tribune</i>	Subscription	10 00
1307	"	C. C. Gere	Clock	1 50
1308	"	Chesapeake & Ohio Co.	Coke, etc.	40 55
1309	"	Westinghouse Elec. & Mfg. Co.	Circuit breaker	22 00
1310	"	E. Dietzgen Co.	Instrument and rubber stamp	6 67
1311	"	Keuffel & Esser Co.	Repairs on tape	10 00
1312	"	Toledo Bridge Co.	Blue prints	10 00
1313	"	John A. Bashear	Grating and prisms, etc.	96 00
1314	"	W. J. Keep	Testing apparatus	200 00
1315	"	Lydia Hart	Work on charts	27 30
1316	"	Richards & Co.	Tubes, bottles, etc.	14 85
1317	"	Herring, Hall, Marvin Co.	Coin safe	45 00
1318	"	Sheldon Brick Co.	Labor	5 00
1319	"	J. R. Wood	Fire brick	31 00
1320	"	S. S. White Dental Mfg. Co.	Cylinder and oxygen	36 40
1321	"	A. C. McClurg & Co.	Books	329 02
1322	"	Jones & Laughlins	Channel beams	45 98
1323	"	L. P. Breckenridge	Expenses	23 75
1324	"	Champaign Supply Co.	Sewer tile, etc.	12 04
1325	"	<i>The Illini</i>	Subscription, etc.	145 00
1326	1898.			
	Jan.	7		
1326	Jan.	A. Selicoorty	Old iron	1 81
1327	"	Electric Appliance Co.	Wire tape, etc.	18 63
1328	"	Wm. J. Bohm	Glass tube	1 25
1329	"	James B. Clow & Son	Pipes, tees, etc.	20 91
1330	"	C. & U. Phoenix Tel. Co.	Services to March 10, 1898	36 00
1331	"	Singbusch & Stoltey	Soap	1 00
1332	"	Miller & Leming	Stakes	5 00
1333	"	Sangamon Coal Co.	Coal	186 25
1334	"	Cunningham Bros.	Shellac	2 25
1335	"	Mrs. Frank Smith	Preparation of class material	4 75
1336	"	E. Henry	Janitor supplies	72 41
1337	"	Twin City Ice & Cold Storage Co.	Ice	5 03
1338	"	Champaign Co. Printing Co.	Printing	71 00
1339	"	J. E. McGilvrey	Expenses	21 56
1340	"	Acme Burnisher Co.	Gas burnishers	26 67
1341	"	T. H. Trevett	Vise, screws, wire, etc.	16 85
1342	"	P. F. Pettibone & Co.	Paper	2 50
1343	"	J. C. Vaughan	Seeds	17 86
1344	"	Sanders Publishing Co.	Advertisement	14 00
1345	"	<i>The Farmer's Voice</i>	"	7 00
1346	"	W. D. Hoard & Co.	"	7 56
1347	"	Prairie Farmer Publishing Co.	"	4 20
1348	"	Yale & Towne Mfg. Co.	Keys, locks, etc.	14 37

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1349	Jan.	7 W. I. Saffell & Co.....	Couch, chairs, etc.....	\$34 00
1350	"	" Athletic Association.....	Photographs.....	3 00
1351	"	" C. H. Baddeley.....	Lamps, plates, cans, etc.....	45 50
1352	"	" John J. McVey.....	Book supports.....	9 00
1353	"	" Hubbard & Sons.....	Sewer pipe, etc.....	31 85
1354	"	" L. K. Howse & Co.....	Baskets, nuts.....	11 45
1355	"	" Montgomery Ward & Co.....	Scale beam.....	3 90
1356	"	" Scully Steel & Iron Co.....	Steel.....	1 54
1357	"	" Dennison Mfg. Co.....	Labels.....	2 13
1358	"	" C. H. Mills.....	Horse for experiment use.....	5 00
1359	"	" H. H. Everett.....	Expenses.....	13 26
1360	"	" Thomas Naughton.....	Photographs.....	1 00
1361	"	" Manning, Maxwell & Moore.....	Hoisting apparatus.....	31 00
1362	"	" F. E. Taintor.....	Cement driveway.....	63 00
1363	"	" Chas. A. Besore.....	Lumber, paper, etc.....	86 06
1364	"	" Union Tile Co.....	Tile.....	3 70
1365	"	" <i>Champaign County Herald</i>	Printing programs, etc.....	67 50
1366	"	" C. G. Armstrong.....	Services.....	150 00
1367	"	" D. H. Lloyd & Son.....	Music.....	14 07
1368	"	" Adler & Hornsteiner.....	Clarionets, horns, etc.....	132 30
1369	"	" Lyon & Healy.....	Music.....	74 99
1370	"	" College Review Stock Co.....	Advertisement.....	5 00
1371	"	" Chas. W. Groves.....	Educational Directory.....	5 00
1372	"	" Smith-Premier Typewriter Co.....	Ribbons.....	6 00
1373	"	" Richards & Co.....	Chemicals, tubes, etc.....	51 70
1374	"	" Machinists Supply Co.....	Sheet brass, etc.....	15 39
1375	"	" Maltby & Wallace Co.....	Drop hangers.....	3 30
1376	"	" W. F. & John Barnes Co.....	Pulley.....	2 00
1377	"	" Eimer & Amend.....	Tubing, chemicals, etc.....	24 34
1378	"	" E. H. Renner & Bro.....	Hauling coal.....	65 13
1379	"	" Burrows Bros. Co.....	Book.....	3 50
1380	"	" C. A. Cutter.....	Periodicals.....	22 50
1381	"	" A. C. McClurg & Co.....	Ink, paper, books, etc.....	287 49
1382	"	" Chas. T. Wilder.....	Blue prints.....	19 00
1383	"	" F. W. Devoe & C. T. Reynolds Co.....	Stencils.....	1 22
1384	"	" F. F. Frederick.....	Expenses.....	6 86
1385	"	" G. C. Willis.....	Crash, flannel, etc.....	31 91
1386	"	" T. R. Leal.....	Grading, hauling, etc.....	89 20
1387	"	" Kehler & Martini.....	Chemical apparatus, etc.....	1,292 40
1388	"	" Hartmann & Braun.....	Apparatus.....	498 14
1389	"	" A. B. Dick Co.....	Mimeograph ink.....	1 35
1390	"	" C. F. Bradley Co.....	Typewriter ribbons, etc.....	5 75
1391	"	" Western Bank Note & Eng. Co.....	Diplomas.....	125 00
1392	"	" Chas. H. Besly Co.....	Emery wheel, wire, solder, etc.....	9 48
1393	"	" Kariher Grocery Co.....	Matches, etc.....	1 98
1394	"	" W. W. Walls & Co.....	Cement, etc.....	2 60
1395	"	" Baker & Adamson Chemical Co.....	Filters, etc.....	5 36
1396	"	" Liquid Carbonic Acid Mfg. Co.....	Acid.....	3 00
1397	"	" O. L. Blakeslee.....	Repairs on manometer.....	2 50
1398	"	" W. S. Royal.....	Oil.....	1 10
1399	"	" <i>Champaign Times</i>	Printing reports.....	1 75
1400	"	" E. G. Howe.....	Expenses.....	8 41
1401	"	" H. W. Lynch.....	Coal.....	492 13
1402	"	" Consolidated Oil & Feed Co.....	Oil.....	4 00
1403	"	" Odin Coal Co.....	Coal.....	1,301 71
1404	"	" U. & C. R'y Gas & Electric Co.....	Motor to Jan. 1, '98; gas to Dec. 24, '97	929 73
1405	"	" Carmichael & Andrews.....	Contract for bridge.....	429 00
1406	"	" M. Lowenstern & Son.....	Blanket.....	5 00
1407	"	" Holland Linseed Oil Co.....	Oil.....	8 75
1408	"	" Chas. F. Witt.....	Repairs on apparatus.....	2 35
1409	"	" Walch & Wyeth.....	Pipe coverings.....	21 93
1410	"	" <i>School News & Pract'l Educat'r</i>	Advertisement, 3 months.....	12 48
1411	"	" Callaghan & Co.....	Books.....	14 00
1412	"	" J. D. Green.....	Slate and tin roofing, etc.....	58 25
1413	"	" Orr & Lockett Hardware Co.....	Brackets, locks, etc.....	64 65
1414	"	" J. A. Wood.....	Brick.....	28 05
1415	"	" Crane Co.....	Pipe, tees, ells, etc.....	176 88
1416	"	" William Price estate.....	Frames, lead, oils, etc.....	16 05
1417	"	" Walsh & Heuck.....	Contract plumbing.....	36 70
1418	"	" E. Barr.....	Brick work.....	7 00
1419	"	" Robinson & Burr.....	Sewer pipe, etc.....	37 30
1420	"	" F. J. Dibble.....	Transmitter and reservoir gauge.....	75 00
1421	"	" Lunkenheimer Co.....	Valves.....	5 50
1422	"	" <i>The Gazette</i>	Printing.....	55 80
1423	"	" Henry Trevett.....	Hardware.....	96 19
1424	"	" Schultz Bridge & Iron Co.....	Blue prints of bridge.....	5 20

Warrants--Continued.

No.	Date.	To whom.	For what	Amount.
1425	Jan. 1898.	7 Library Bureau	Trays, cards, etc.	\$7 05
1426	"	Knowlton & Bennett	Index book	13 25
1427	"	Sweet & Wallach Co.	Negatives	2 38.
1428	"	Nevins Memorial	Copy of catalogue.	5 00
1429	"	John Wiley & Sons	Books	4 26.
1430	"	Architectural Record	Subscription	2 00
1431	"	Chas. F. Hottes	Books	13 50
1432	"	<i>Astronomical Journal</i>	"	63 09.
1433	"	Kenyon News & Postal Sub. Co.	Subscription to periodicals for 1898.	311 10
1434	Jan. 1898.	15 Wm. Bond & Son	Chronometer	150 00
1435	"	Central Union Tel. Co	Rent of telephones	28 80.
1436	"	Leland Stanford Jr. University	Book	1 70.
1437	"	Patterson Bros	Brass pipe	18 61
1438	"	Wm. T. Comstock	Subscription for 1898	4 00.
1439	"	Am. Arch. & Bldg. News Co	Subscription to December 31, 1898.	25 10
1440	"	Rogers & Manson	"	2 00
1441	"	Eimer & Amend	Flasks, wire, etc.	46 26.
1442	"	T. R. Leal	Hauling and grading, etc.	90 26.
1443	"	E. H. Renner & Bro	Hauling coal, etc	92 62
1444	"	W. W. Lindley	Postage stamps	45 00
1445	"	Ozias Riley	"	41 00
1446	"	S. W. Shattuck, Business Mgr.	Sundry items	84 08.
1447	"	"	Freightage	87 21
1448	"	"	Expressage	47 65
1449	"	"	Pay rolls of students, Dec., 1898	306 89
1450	"	"	men, January, 1898.	1,072 45
1451	Jan. 1898.	31 A. S. Draper	Salary for January, 1898.	583 33
1452	"	T. J. Burrill	"	200 00
1453	"	S. W. Shattuck	"	166 66
1454	"	N. Clifford Ricker	"	191 66
1455	"	Ira O. Baker	"	187 50
1456	"	S. A. Forbes	"	83 33
1457	"	C. W. Rolfe	"	175 00.
1458	"	D. McIntosh	"	50 00
1459	"	A. N. Talbot	"	175 00
1460	"	A. W. Palmer	"	175 00.
1461	"	F. F. Frederick	"	158 33
1462	"	S. W. Parr	"	175 00
1463	"	H. J. Barton	"	175 00
1464	"	C. M. Moss	"	175 00
1465	"	D. K. Dodge	"	166 66
1466	"	L. P. Breckenridge	"	187 50
1467	"	David Kinley	"	187 50
1468	"	Eugene Davenport	"	95 83
1469	"	Arnold Tompkins	"	166 66
1470	"	A. P. Carman	"	187 50
1471	"	W. H. Jones	"	100 00
1472	"	E. B. Greene	"	141 66
1473	"	G. E. Gardner	"	166 66
1474	"	C. C. Pickett	"	125 00
1475	"	Katharine L. Sharp	"	166 66
1476	"	Geo. T. Kemp	"	166 66
1477	"	G. W. Myers	"	150 00
1478	"	E. J. Townsend	"	137 50
1479	"	Jas. M. White	"	133 33
1480	"	Lewis A. Rhoades	"	141 66
1481	"	Henry H. Everett	"	133 33.
1482	"	W. H. VanDervoort	"	137 50
1483	"	W. D. Pence	"	133 33
1484	"	H. S. Grindley	"	108 33
1485	"	T. A. Clark	"	133 33
1486	"	H. S. Piatt	"	100 00
1487	"	B. V. Swenson	"	108 33
1488	"	A. H. Daniels	"	108 33
1489	"	G. D. Fairfield	"	108 33
1490	"	Chas. W. Tooke	"	108 33
1491	"	Fred A. Sager	"	100 00
1492	"	William Esty	"	108 33
1493	"	Frank Smith	"	100 00
1494	"	C. D. McLane	"	100 00
1495	"	P. G. Holden	"	54 16
1496	"	J. E. McGilvrey	"	108 33
1497	"	Seth J. Temple	"	100 00
1498	"	J. D. Phillips	"	83 33
1499	"	Violet D. Jayne	"	125 00
1500	"	Oscar Quick	"	80 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1501	Jan. 31	E. J. Lake	Salary for January, 1898.....	\$70 00
1502	"	Ella H. Morrison.....	"	100 00
1503	"	Geo. A. Huff.....	"	120 00
1504	"	W. J. Fraser.....	"	37 50
1505	"	C. R. Rose.....	"	80 00
1506	"	J. C. Blair.....	"	45 83
1507	"	Margaret Mann.....	"	75 00
1508	"	Alison M. Fernie.....	"	100 00
1509	"	Agnes S. Cook.....	"	70 00
1510	"	A. C. Howland.....	"	80 00
1511	"	Chester H. Rowell.....	"	70 00
1512	"	Geo. H. Meyer.....	"	70 00
1513	"	W. H. Kavanaugh.....	"	80 00
1514	"	J. P. Hylan.....	"	80 00
1515	"	Alice Putnam.....	"	80 00
1516	"	A. C. Burnham.....	"	90 00
1517	"	Maude W. Straight.....	"	75 00
1518	"	Chas. F. Hottes.....	"	70 00
1519	"	W. C. Brenke.....	"	75 00
1520	"	C. T. Wilder.....	"	70 00
1521	"	Jessie Y. Fox.....	"	30 00
1522	"	James H. McKee.....	"	50 00
1523	"	George D. Hubbard.....	"	50 00
1524	"	H. A. Webber.....	"	50 00
1525	"	C. V. Seastone.....	"	50 00
1526	"	R. B. Ketchum.....	"	50 00
1527	"	H. V. Carpenter.....	"	50 00
1528	"	J. L. Sammis.....	"	50 00
1529	"	M. B. Hammond.....	"	50 00
1530	"	Anna Fossler.....	"	50 00
1531	"	C. B. Clark.....	"	85 00
1532	"	A. R. Curtis.....	"	85 00
1533	"	Henry Jones.....	"	60 00
1534	"	J. H. Wilson.....	"	60 00
1535	"	D. H. Carnahan.....	"	30 00
1536	"	A. C. Hobart.....	"	30 00
1537	"	E. W. Poole.....	"	30 00
1538	"	F. W. Schacht.....	"	30 00
1539	"	A. E. Paul.....	"	30 00
1540	"	Don Sweeney.....	"	30 00
1541	"	A. St. J. Williamson.....	"	10 00
1542	"	Edward G. Howe.....	"	150 00
1543	"	Lillie A. Clendenin.....	"	65 00
1544	"	R. S. Douglass.....	"	75 00
1545	"	C. B. Randolph.....	"	70 00
1546	"	C. W. Alvord.....	"	70 00
1547	"	W. L. Pillsbury.....	"	162 50
1548	"	Geo. W. Graham.....	"	100 00
1549	"	Lillie Heath.....	"	75 00
1550	"	Sue W. Ford.....	"	55 00
1551	"	L. A. Boice.....	"	55 00
1552	"	Wm. F. Marker.....	"	55 00
1553	"	Jennie M. Ladin.....	"	45 00
1554	"	Georgia E. Hopper.....	"	30 00
1555	"	Adeline M. Chase.....	"	25 00
1556	"	Mary T. Pierce.....	"	25 00
1557	"	F. J. Foote.....	"	75 00
1558	"	Joe Morrow.....	"	75 00
1559	"	E. W. Justus.....	"	50 00
1560	"	W. H. Zimmerman.....	"	50 00
1561	"	M. T. Lindsay.....	"	40 00
1562	"	I. H. Allen.....	"	40 00
1563	"	Richard Uttenweiler.....	"	60 00
1564	"	Fred Atkinson.....	"	35 00
1565	"	Chas. B. Ewalt.....	"	25 00
1566	"	D. McIntosh.....	"	75 00
1567	"	C. V. Millar.....	"	75 00
1568	"	R. W. Stark.....	"	50 00
1569	"	Henry J. East.....	"	40 00
1570	"	W. R. Hoffman.....	"	37 00
1571	"	L. G. Lathrop.....	"	32 00
1572	"	J. J. Johnson.....	"	32 00
1573	"	E. E. Pound.....	"	32 00
1574	"	A. S. Golden.....	"	32 00
1575	"	A. McGlaughlin.....	"	32 00
1576	"	E. A. Nelson.....	"	32 00

Warrants--Continued.

No.	Date.	To whom.	For what.	Amount.	
1577	1898.				
	Jan.	31	Philip Schwelm	Salary for January, 1898.....	\$27 00
1578	"	"	Chas. T. Wilder	Blue prints and photo material.....	60 33
1579	"	"	McIntosh Battery & Optical Co.	Asbestos paper.....	1 25
1580	"	"	West Publishing Co.....	Subscriptions.....	24 00
1581	"	"	National Jeloluse Co.....	Jeloluse.....	6 32
1582	"	"	<i>Champaign County Herald</i>	Printing, etc.....	33 75
1583	"	"	E. Davenport.....	Expenses.....	15 55
1584	"	"	John B. Bennett.....	Labor and material on bridge.....	49 50
1585	"	"	Scully Steel & Iron Co.....	Boiler rivet steel.....	1 27
1586	"	"	Kny, Scheerer & Co.....	Condensers.....	67 50
1587	"	"	E. S. Golden.....	Tags for furniture, etc.....	18 50
1588	"	"	Wm. Price estate.....	Painting roof, etc.....	30 00
1589	"	"	Burrow Bros. Co.....	Book.....	3 50
1590	"	"	Queen & Co.....	Scales.....	57 60
1591	"	"	A. E. Thomas.....	Services in rehearsals, etc.....	2 00
1592	"	"	B. N. Rethy.....	Rent of double bass.....	3 00
1593	"	"	C. J. Sabin.....	Coal.....	5 00
1594	"	"	J. D. Phillips.....	Lettering diplomas.....	4 50
1595	"	"	Henry H. Everett.....	Expenses.....	18 16
1596	"	"	J. A. Reeves.....	Coal.....	44 25
1597	"	"	Ralph Bennett.....	Photographs.....	3 75
1598	"	"	J. T. Wolcott.....	Typewriting, etc.....	41 50
1599	"	"	Lord & Burnham Co.....	Contract for conservatory.....	2,730 07
1600	"	"	Hubbard & Sons.....	heaters, pipe, etc.....	1,002 83
1601	"	"	John M. Gregory.....	Lectures.....	100 00
1602	"	"	E. G. Keith.....	Salary for services.....	150 00
1603	"	"	Katharine L. Sharp.....	Expenses.....	7 66
1604	"	"	C. A. Kofoid.....		2 00
1605	"	"	T. R. Leal.....	Grading and hauling.....	35 10
1606	"	"	J. E. McGilvrey.....	Expenses visiting schools.....	47 86
1607	"	"	Walter H. Jones.....	Expenses for music.....	1 68
1608	"	"	Henry Heil Chemical Co.....	Lamp, weights, etc.....	4 81
1609	"	"	Standard Oil Co.....	Oil.....	22 32
1610	"	"	Jones & Laughlins.....	Machine bolts, steel, etc.....	27 61
1611	"	"	Pictorial Printing Co.....	Cardboard boxes.....	55 00
1612	"	"	Fuller & Fuller Co.....	Glue, hard oil, etc.....	9 56
1613	"	"	Chicago Calcium Light Co.....	Gas.....	5 10
1614	"	"	Wm. J. Bohm.....	Repairing tube.....	3 00
1615	"	"	Electric Appliance Co.....	Shades.....	49 23
1616	"	"	Goodyear Vulcanite Co.....	Rods, rubber, etc.....	17 96
1617	"	"	Gardner Governor Co.....	Governors.....	17 00
1618	"	"	Samuel M. Morton.....	Lantern slides.....	37 65
1619	"	"	Otis C. White.....	Apparatus.....	12 29
1620	"	"	Eimer & Amend.....	Platinum tube.....	129 20
1621	"	"	National Educational Ass'n.....	Proceedings.....	37 25
1622	"	"	Engineering News Pub. Co.....	Subscription.....	4 00
1623	"	"	Library Bureau.....	Library notes, etc.....	12 90
1624	"	"	Gustav E. Stechert.....	Books.....	457 33
1625	"	"	A. C. McClurg & Co.....	Books, stationery, etc.....	268 86
1626	"	"	Orr & Lockett Hardware Co.....	Sand paper, glue, etc.....	25 10
1627	"	"	Cosmopolitan Incand'ent L't Co.....	Lights, chimneys, etc.....	15 50
1628	"	"	<i>Publishers' Weekly</i>	Publications.....	34 00
1629	"	"	Bausch & Lomb Optical Co.....	Oven, thermometer, etc.....	30 25
1630	"	"	Thomas Naughton.....	Photographs.....	8 30
1631	"	"	A. P. Cunningham & Son.....	Tracing cloth, etc.....	22 59
1632	"	"	Mittendorf & Kiler.....	Burlap, chairs, etc.....	19 53
1633	"	"	F. K. Robeson & Bro.....	Crash, matting, etc.....	58 71
1634	"	"	Crosby Str'm Gauge & Valve Co.....	Globe valves.....	47 07
1635	"	"	<i>The Gazette</i>	Printing.....	90 73
1636	"	"	Chas. A. Besore.....	Lumber and coal.....	315 25
1637	"	"	James Littler.....	Coal.....	1 90
1638	"	"	E. Barr.....	Hard brick.....	6 50
1639	"	"	Dr. H. E. Cushing.....	Services, medicine, etc.....	3 50
1640	"	"	Champaign Co. Printing Co.....	Printing letter heads.....	8 50
1641	"	"	Henry Ostendorf.....	Hauling dead horse.....	2 00
1642	"	"	J. M. Chase.....	Painting.....	26 40
1643	"	"	Sheldon Brick Co.....	Sand.....	3 60
1644	"	"	Hubbard & Sons.....	Valves, fittings, etc.....	33 55
1645	"	"	Champ'ign M'hine & Supply Co.....	Anchor bolts, tees, plugs, etc.....	19 16
1646	"	"	Robinson & Burr.....	Pipe, valves, regulator, etc.....	152 92
1647	"	"	J. D. Green.....	Repairing roofs of buildings.....	150 88
1648	"	"	Edwin D. Weary.....	Book.....	3 00
1649	"	"	Callaghan & Co.....	Law books.....	14 15
1650	"	"	Richards & Co.....	Balances, weights, etc.....	410 26
1651	Feb.	14	<i>The Illio</i>	Advertising.....	100 00
1652	"	"	Hubbard & Sons.....	Iron tank, etc.....	4 95

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1653	Feb. 14	A. E. Wuesteman.....	Regulator.....	\$1 50
1654	"	Walsh & Heuck.....	Lead tubing.....	1 20
1655	"	H. Swannell.....	Toilet paper, etc.....	52 80
1656	"	The Electric Arc Light Co.....	Globes, carbons, etc.....	18 01
1657	"	Queen & Co.....	Pyrometer, etc.....	14 75
1658	"	The Broadway.....	Rubber boots.....	9 00
1659	"	P. E. Taintor.....	Cement.....	3 50
1660	"	Twin City Ice & Cold Str'ge Co.....	Ice.....	3 76
1661	"	Library Bureau.....	Decimal classification, etc.....	87 50
1662	"	Henry Trevett.....	Pipe, galvanized iron, etc.....	68 05
1663	"	Cosm'pl'n Incan Gas Light Co.....	Lights, chimneys, etc.....	21 50
1664	"	Walch & Wyeth.....	Magnesia pipe covering.....	6 34
1665	"	Manning, Maxwell & Moore.....	Pump.....	6 00
1666	"	E. Henry.....	Brooms, soap, etc.....	38 30
1667	"	Twin City Electric Co.....	Brackets, shades, etc.....	20 43
1668	"	<i>Popular Astronomy</i>	Lantern slides.....	11 25
1669	"	Bausch & Lomb Optical Co.....	Knives, labels, jars, etc.....	28 11
1670	"	Eimer & Amend.....	Chemical apparatus, etc.....	100 48
1671	"	William Cox.....	Computers.....	20 65
1672	"	Kenyon News & Postal Sub. Co.....	Subscriptions.....	5 50
1673	"	Keuffel & Esser Co.....	Dividers.....	17 50
1674	"	Burrow Bros. Co.....	Books.....	11 24
1675	"	Western Electric Co.....	Cells, battery, jars, etc.....	25 56
1676	"	T. H. Trevett.....	Shovels, galvanized iron, etc.....	29 03
1677	"	Wm. J. Bohm.....	Repairs on pump.....	3 50
1678	"	Eugene Dietzgen & Co.....	Paper, cloth, etc.....	19 50
1679	"	H. McFadden & Bro.....	Bran, straw, etc.....	12 45
1680	"	Western News Co.....	Subscription.....	33 00
1681	"	Raoul Renault.....	".....	1 50
1682	"	Whiteside Co. Farmers' Inst.....	Advertisement.....	1 00
1683	"	E. S. Blakeslee.....	Electric motor.....	10 00
1684	"	W. A. Olmsted.....	Blackboards.....	14 40
1685	"	A. P. Carman.....	Expenses.....	14 61
1686	"	Chas. A. Besore.....	Lumber and coal.....	219 05
1687	"	Brunswick-Balke Collender Co.....	Oak desk.....	10 00
1688	"	H. W. Lynch.....	Coal.....	267 76
1689	"	Odin Coal Co.....	".....	357 01
1690	"	Crane Company.....	Pipe fittings, etc.....	101 28
1691	"	Whitall, Tatum & Co.....	Jars, bottles, apparatus, etc.....	172 56
1692	"	Gustav E. Stechert.....	Books.....	189 86
1693	"	W. W. Lindley.....	Postage.....	18 00
1694	"	Ozias Riley.....	Postage stamps.....	38 00
1695	"	A. W. Palmer.....	Expenses.....	8 25
1696	"	E. H. Renner & Bro.....	Hauling coal, etc.....	116 29
1697	"	S. W. Shattuck, business mgr.....	Ocean freight, etc.....	94 51
1698	"	".....	Expressage.....	50 80
1699	"	".....	Pay rolls, students, January, 1898..	251 98
1700	"	".....	Pay rolls, men, January, 1898.....	851 43
1701	Feb. 25	A. S. Draper.....	Salary for February, 1898.....	583 33
1702	"	T. J. Burrill.....	".....	200 00
1703	"	S. W. Shattuck.....	".....	166 66
1704	"	N. C. Ricker.....	".....	191 66
1705	"	Ira O. Baker.....	".....	187 50
1706	"	S. A. Forbes.....	".....	83 33
1707	"	C. W. Rolfe.....	".....	175 00
1708	"	D. McIntosh.....	".....	50 00
1709	"	A. N. Talbott.....	".....	175 00
1710	"	A. W. Palmer.....	".....	175 00
1711	"	F. F. Frederick.....	".....	158 33
1712	"	S. W. Parr.....	".....	175 00
1713	"	H. J. Barton.....	".....	175 00
1714	"	Chas. M. Moss.....	".....	175 00
1715	"	D. K. Dodge.....	".....	166 66
1716	"	L. P. Breckenridge.....	".....	187 50
1717	"	David Kinley.....	".....	187 50
1718	"	Eugene Davenport.....	".....	95 83
1719	"	Arnold Tompkins.....	".....	166 + 6
1720	"	A. P. Carman.....	".....	187 50
1721	"	Walter H. Jones.....	".....	100 00
1722	"	E. B. Greene.....	".....	141 66
1723	"	Geo. E. Gardner.....	".....	166 66
1724	"	C. C. Pickett.....	".....	125 00
1725	"	Katharine L. Sharp.....	".....	166 66
1726	"	Geo. T. Kemp.....	".....	166 66
1727	"	Geo. W. Myers.....	".....	150 00
1728	"	Edgar J. Townsend.....	".....	137 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1729	Feb. 25	James M. White.....	Salary for February, 1898.....	133 33
1730	"	Lewis A. Rhoades.....	"	141 66
1731	"	Henry H. Everett.....	"	133 33
1732	"	Wm. H. VanDervoort.....	"	137 50
1733	"	W. D. Pence.....	"	133 33
1734	"	H. S. Grindley.....	"	108 33
1735	"	T. A. Clark.....	"	133 33
1736	"	H. S. Piatt.....	"	100 00
1737	"	B. V. Swenson.....	"	108 33
1738	"	A. H. Daniels.....	"	108 33
1739	"	Geo. D. Fairfield.....	"	108 33
1740	"	Chas. W. Tooke.....	"	108 33
1741	"	Fred A. Sager.....	"	100 00
1742	"	William Esty.....	"	108 33
1743	"	Frank Smith.....	"	100 00
1744	"	C. D. McLane.....	"	100 00
1745	"	P. G. Holden.....	"	54 16
1746	"	J. E. McGilvrey.....	"	108 33
1747	"	S. J. Temple.....	"	100 00
1748	"	J. D. Phillips.....	"	83 33
1749	"	Violet D. Jayne.....	"	125 00
1750	"	Oscar Quick.....	"	80 00
1751	"	Edward J. Lake.....	"	70 00
1752	"	Ella H. Morrison.....	"	100 00
1753	"	Geo. A. Huff.....	"	120 00
1754	"	W. J. Fraser.....	"	37 50
1755	"	Carlton R. Rose.....	"	80 00
1756	"	Joseph C. Blair.....	"	45 83
1757	"	Margaret Mann.....	"	75 00
1758	"	Allison M. Fernie.....	"	100 00
1759	"	Agnes S. Cook.....	"	70 00
1760	"	A. C. Howland.....	"	80 00
1761	"	Chester H. Rowell.....	"	70 00
1762	"	Geo. H. Meyer.....	"	70 00
1763	"	W. H. Kavanaugh.....	"	80 00
1764	"	J. P. Hylan.....	"	80 00
1765	"	Alice Putnam.....	"	80 00
1766	"	A. C. Burnham.....	"	90 00
1767	"	Maude W. Straight.....	"	75 00
1768	"	Chas. F. Hottes.....	"	70 00
1769	"	W. C. Brenke.....	"	75 00
1770	"	C. T. Wilder.....	"	70 00
1771	"	Jessie Y. Fox.....	"	30 00
1772	"	Jas. A. McKee.....	"	50 00
1773	"	Geo. D. Hubbard.....	"	50 00
1774	"	H. A. Webber.....	"	50 00
1775	"	C. V. Seastone.....	"	50 00
1776	"	R. B. Ketchum.....	"	50 00
1777	"	H. V. Carpenter.....	"	50 00
1778	"	J. L. Sammis.....	"	50 00
1779	"	M. B. Hammond.....	"	50 00
1780	"	Anna Fossler.....	"	50 00
1781	"	C. B. Clark.....	"	85 00
1782	"	A. R. Curtis.....	"	85 00
1783	"	Henry Jones.....	"	60 00
1784	"	J. H. Wilson.....	"	60 00
1785	"	D. H. Carnahan.....	"	30 00
1786	"	A. C. Hobart.....	"	30 00
1787	"	E. W. Poole.....	"	30 00
1788	"	F. W. Schacht.....	"	30 00
1789	"	A. E. Paul.....	"	30 00
1790	"	Don Sweeney.....	"	30 00
1791	"	A. S. Williamson.....	"	10 00
1792	"	Edward G. Howe.....	"	150 00
1793	"	Lillie A. ClenJenin.....	"	65 00
1794	"	R. S. Douglass.....	"	75 00
1795	"	C. B. Randolph.....	"	70 00
1796	"	C. W. Alvord.....	"	70 00
1797	"	W. L. Pillsbury.....	"	162 50
1798	"	Geo. W. Graham.....	"	100 00
1799	"	Lillie Heath.....	"	75 00
1800	"	Sue W. Ford.....	"	55 00
1801	"	L. A. Boice.....	"	55 00
1802	"	W. F. Marker.....	"	55 00
1803	"	Jennie M. Laffin.....	"	45 00
1804	"	Georgia E. Hopper.....	"	30 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1805	Feb. 28	Adelaide M. Chase	Salary for February, 1898	\$25 00
1806	"	Mary T. Pierce	"	25 00
1807	"	W. O. Waters	"	20 00
1808	"	Joe Morrow	"	75 00
1809	"	F. J. Foote	"	75 00
1810	"	E. W. Justus	"	50 00
1811	"	W. H. Zimmerman	"	50 00
1812	"	M. T. Lindsey	"	40 00
1813	"	I. H. Allen	"	40 00
1814	"	Richard Uttenwiler	"	60 00
1815	"	Fred Atkinson	"	35 00
1816	"	C. B. Ewalt	"	25 00
1817	"	Henry J. East	"	40 00
1818	"	W. R. Hoffman	"	37 00
1819	"	L. G. Lathrop	"	32 00
1820	"	J. J. Johnson	"	32 00
1821	"	A. S. Golden	"	32 00
1822	"	Allen McLaughlin	"	32 00
1823	"	E. A. Nelson	"	32 00
1824	"	Philip Schwehm	"	27 00
1825	"	C. V. Millar	"	75 00
1826	"	R. W. Stark	Salary, February, 1898	50 00
1827	"	D. McIntosh	"	75 00
1828	"	A. W. Palmer	Salary, 3 months, to Feb. 28, 1898	25 00
1829	"	J. C. Blair	Books	2 70
1830	"	Orr & Lockett Hardware Co.	Letter plates, etc	3 25
1831	"	Frank Smith	Class materials, etc.	21 34
1832	"	E. O. Vaile	Advertisement	10 00
1833	"	E. Barr	Pressed brick, etc	8 10
1834	"	Hibbard, Spencer, Bartlett & Co	Netting	6 50
1835	"	Bausch & Lomb Optical Co.	Objective, etc.	7 45
1836	"	Western News Co.	Subscriptions	21 65
1837	"	W. A. Olmsted Scientific Co.	Thermometers, etc.	18 24
1838	"	Wm. McGuire	Painting bridge samples	10 43
1839	"	Shawmut Fuse Wire Co.	Switch	5 83
1840	"	Howe, Brown & Co.	Tool steel, etc.	55 43
1841	"	L. P. Breckenridge	Expenses of lecture	14 50
1842	"	Charles Lents & Son	Centrifuge and attachment	24 10
1843	"	Providence Public Library	Subscription	2 00
1844	"	Ginn & Co.	Book	2 00
1845	"	Burrows Bros. Co.	Subscription	7 00
1846	"	Jones & Laughlins	Bolts, steel, etc	15 23
1847	"	Medart Patent Pulley Co.	Pulleys	17 64
1848	"	Yale & Towne Mfg Co.	Keys	3 18
1849	"	Crane Co.	Pipe valves, etc.	101 92
1850	"	Odin Coal Co.	Coal	585 60
1851	March 18	Alex McLean	Expenses	43 96
1852	"	F. M. McKay	"	28 70
1853	"	Samuel M. Inglis	"	10 00
1854	"	Isaac S. Raymond	"	13 20
1855	"	Mary L. Carriell	"	34 14
1856	"	S. A. Bullard	"	31 85
1857	"	J. E. Armstrong	"	13 55
1858	"	Mrs. Dora S. Smith	Work on museum material	25 00
1859	"	Samuel Bartley	Rent of land	10 00
1860	"	Morrison & Woodward	"	25 00
1861	"	S. B. Hedges	Milk	18 56
1862	"	Robinson & Burr	On contract	239 19
1863	"	Hubbard & Sons	Hardware and contract for mains	424 94
1864	"	J. Wiseman & Son	Paint and painting	10 80
1865	"	P. E. Taintor	Making cement floor	303 85
1866	"	The Inland Publishing Co.	Subscription	8 75
1867	"	The New England Pub. Co.	Copies of pamphlets	14 00
1868	"	James G. Bidle	Analytical balance	92 20
1869	"	Hibbard, Spencer, Bartlett & Co	Hardware	11 23
1870	"	<i>The Illini</i>	Advertisement	125 00
1871	"	A. Tompkins	Expenses	9 50
1872	"	Franke & Schindler	Wire rope	6 72
1873	"	Miller & Sibley	Jersey heifer	195 00
1874	"	Eimer & Amend	Chemicals	19 05
1875	"	Weston Electric In'st Co.	Repairing	9 50
1876	"	H. W. Lynch	Coal	418 14
1877	"	A. L. Ide & Son	Valve	5 00
1878	"	Fuller & Fuller Co.	Chemicals	18 09

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1879	March 18	Mathiessen & Hagle Zinc Co...	Spelter	\$9 90
1880	"	Champaign Mach. & Supply Co	Hardware	35 58
1881	"	Electric Appliance Co.....	Electrical supplies	1 83
1882	"	Crosby St'm Gauge & Valve Co	Pantagraph, etc.....	16 00
1883	"	Wm. S. Royal	Oil	1 95
1884	"	Illinois Malleable Iron Co.....	Fittings	2 95
1885	"	J. Manz & Co.....	Portrait	6 00
1886	"	Callahan & Co.....	Books.....	2 40
1887	"	Orr & Lockett Hardware Co.	Hooks, plates, etc	13 00
1888	"	Bausch & Lomb Optical Co.....	Scissors and turntables.....	18 00
1889	"	L. H. Owbridge.....	Photographs	8 40
1890	"	H. D. Oldham	Ink, pens, paste, etc.....	3 80
1891	"	Robinson Bicycle Trainer Co..	Trainors and dials.....	43 80
1892	"	Chas. H. Besly & Co.....	Rods, tubing, pliers, etc.....	13 71
1893	"	Eates & Guild Co.....	Pencil sketches.....	3 00
1894	"	Grant Gear Works	Machine	60 00
1895	"	Henry J. Green	Thermograph and thermometers...	31 05
1896	"	S. A. Forbes	Expenses.....	8 16
1897	"	W. L. Pillsbury	"	9 71
1898	"	T. R. Leal	Hauling and labor.....	87 22
1899	"	S. W. Shattuck, business mgr.	Pay-rolls of men, Feb., 1898	833 32
1900	"	"	students, Feb., 1898	333 16
1901	March 31	A. S. Draper	Salary, March, 1898	553 33
1902	"	T. J. Burrill	"	200 00
1903	"	S. W. Shattuck	"	166 66
1904	"	N. C. Ricker	"	191 66
1905	"	Ira O. Baker.....	"	187 50
1906	"	S. A. Forbes	"	83 33
1907	"	C. W. Rolfe	"	175 00
1908	"	D. McIntosh	"	50 00
1909	"	A. N. Talbot	"	175 00
1910	"	A. W. Palmer	"	175 00
1911	"	F. F. Frederick.....	"	158 33
1912	"	S. W. Parr	"	175 00
1913	"	H. J. Barton	"	175 00
1914	"	Chas. M. Moss	"	175 00
1915	"	D. K. Dodge	"	166 66
1916	"	L. P. Breckenridge	"	187 50
1917	"	David Kinley	"	187 50
1918	"	E. Davenport	"	95 83
1919	"	Arnold Tompkins	"	166 66
1920	"	A. P. Carman	"	187 50
1921	"	Walter H. Jones	"	100 00
1922	"	E. B. Greene	"	141 66
1923	"	Geo. E. Gardner.....	"	166 66
1924	"	C. C. Pickett	"	125 00
1925	"	Katharine L. Sharp.....	"	166 66
1926	"	Geo. T. Kemp	"	166 66
1927	"	G. W. Myers	"	150 00
1928	"	Edgar J. Townsend.....	"	137 50
1929	"	Jas. M. White	"	133 33
1930	"	L. A. Rhoades	"	141 66
1931	"	Henry H. Everett.....	"	133 33
1932	"	W. H. Van Dervoort.....	"	137 50
1933	"	W. D. Pence	"	133 33
1934	"	H. S. Grindley	"	108 33
1935	"	T. A. Clark	"	133 33
1936	"	H. S. Piatt	"	100 00
1937	"	R. V. Swenson	"	108 33
1938	"	A. H. Daniels	"	108 33
1939	"	Geo. D. Fairfield.....	"	108 33
1940	"	Chas. W. Tooke	"	108 33
1941	"	Fred A. Sager	"	100 00
1942	"	William Esty	"	108 33
1943	"	Frank Smith	"	100 00
1944	"	C. D. McLane	"	100 00
1945	"	P. G. Holden	"	54 16
1946	"	J. E. McGilvrey.....	"	108 33
1947	"	Seth J. Temple	"	100 00
1948	"	J. D. Phillips	"	83 33
1949	"	Violet D. Jayne.....	"	125 00
1950	"	Oscar Quick	"	80 00
1951	"	Edward J. Lake	"	70 00
1952	"	Ella H. Morrison.....	"	100 00
1953	"	Geo. A. Huff	"	120 00
1954	"	W. J. Fraser.....	"	37 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1955	March 31	Carlton R. Rose	Salary, March, 1898	\$80 00
1956	"	J. C. Blair	"	45 83
1957	"	Margaret Mann	"	75 00
1958	"	Alison M. Fernie	"	100 00
1959	"	Agnes S. Cook	"	70 00
1960	"	A. C. Howland	"	80 00
1961	"	Chester H. Rowell	"	70 00
1962	"	Geo. H. Meyer	"	70 00
1963	"	W. H. Kavanaugh	"	80 00
1964	"	J. P. Hylan	"	80 00
1965	"	Alice Putnam	"	80 00
1966	"	A. C. Burnham	"	90 00
1967	"	Maude W. Straight	"	75 00
1968	"	Chas. F. Hottes	"	70 00
1969	"	W. C. Brenke	"	75 00
1970	"	C. T. Wilder	"	70 00
1971	"	Jessie Y. Fox	"	30 00
1972	"	J. H. McKee	"	50 00
1973	"	Geo. D. Hubbard	"	50 00
1974	"	H. A. Webber	"	50 00
1975	"	C. V. Seastone	"	50 00
1976	"	R. B. Ketchum	"	50 00
1977	"	H. V. Carpenter	"	50 00
1978	"	J. L. Sammis	"	50 00
1979	"	M. B. Hammond	"	50 00
1980	"	Anna Fossler	"	50 00
1981	"	C. B. Clark	"	85 00
1982	"	A. R. Curtiss	"	85 00
1983	"	Henry Jones	"	60 00
1984	"	J. H. Wilson	"	60 00
1985	"	D. H. Carnahan	"	30 00
1986	"	A. C. Hobart	"	30 00
1987	"	F. W. Schacht	"	30 00
1988	"	A. E. Paul	"	30 00
1989	"	Don Sweeey	"	30 00
1990	"	A. S. Williamson	"	10 00
1991	"	Edward G. Howe	"	150 00
1992	"	Lillie A. Clendenin	"	65 00
1993	"	R. S. Douglass	"	75 00
1994	"	C. B. Randolph	"	70 00
1995	"	C. W. Alward	"	70 00
1996	"	W. L. Pillsbury	services	162 50
1997	"	S. W. Shattuck	"	100 00
1998	"	D. McIntosh	"	75 00
1999	"	C. V. Millar	"	75 00
2000	"	R. W. Stark	"	50 60
2001	"	Geo. W. Graham	services	100 00
2002	"	Lillie Heath	"	75 00
2003	"	Sue W. Ford	"	55 00
2004	"	L. A. Boice	"	55 00
2005	"	Jennie M. Laffin	"	45 00
2006	"	Georgia E. Hopper	"	30 00
2007	"	Adelaide M. Chase	"	25 00
2008	"	Mary L. Pierce	"	25 00
2009	"	W. O. Waters	"	20 00
2010	"	F. J. Foote	services	75 00
2011	"	Joe Morrow	"	75 00
2012	"	E. W. Justus	"	50 00
2013	"	W. H. Zimmerman	"	50 00
2014	"	M. T. Lindsey	"	40 00
2015	"	J. H. Allen	"	40 00
2016	"	Richard Uttenweiler	"	60 00
2017	"	Fred Atkinson	"	35 00
2018	"	C. B. Ewalt	"	25 00
2019	"	Henry J. East	"	40 00
2020	"	W. R. Hoffman	"	37 00
2021	"	L. G. Lathrop	"	32 00
2022	"	J. J. Johnson	"	32 00
2023	"	E. A. Nelson	"	32 00
2024	"	A. S. Golden	"	32 00
2025	"	Allen McGlaughlin	"	32 00
2026	"	Philip Schwehr	"	27 00
2027	"	W. F. Marker	"	55 00
2028	"	Central Electric Co.	Wire, tubes, lamps, etc.	70 78
2029	"	American Steam Gage Co.	Pantagraph and counter	13 91
2030	"	J. H. Young	Spherometer and screw	2 40

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2031	1898.			
2032	March 31	Riehl Bros	Pocket recorder	\$125 00
2033	"	C. C. Gere	Timer	17 50
2034	"	Whitall, Tatum & Co	Tinct.	15 96
2035	"	E. Hastings	Services	10 00
2036	"	John Wiley & Sons	Book	1 26
2037	"	The Baker & Adam'n Chem.Co	Acid and ammonia	44 30
2038	"	Fauth & Co	Sunshade	1 55
2039	"	Samuel M. Morton	Lantern slides and express	13 90
2040	"	David S. Jordan	Mounting skin	2 50
2041	"	H. H. Scurlock	Blue print	2 50
2042	"	C. & U. Phoenix Telephone Co.	Telephone services	37 25
2043	"	Geo. Wittbold	Plants	9 70
2044	"	Detroit Flower Pot Mfy	Flower pots	10 66
2045	"	Ozias Riley, P. M.	Stamps	79 00
2046	"	E. H. Renner & Bro	Hauling	193 29
2047	"	J. E. McGilvrey	Expenses	14 49
2048	"	T. R. Leal	Labor and hauling	90 81
2049	"	S. W. Shattuck, business mgr.	Expressage	52 25
2050	"	"	Freight	197 88
2051	April 15	The W. J. Johnston Co	Expenses, etc	132 43
2052	"	Western Electric Co	General index	8 00
2053	"	John Roebling's Sons Co	Switch connections	20 58
2054	"	J. D. Green	Wire	53 87
2055	"	Engineering News Publish'g Co	Repairing sheet tin and boxes	18 10
2056	"	G. Cramer	Advertisement	6 88
2057	"	Sweet, Wallach & Co	Plates	25 76
2058	"	Wilson & Christensen	Photographic materials	18 75
2059	"	L. C. Garwood	Mop wringer	3 50
2060	"	J. T. Wolcott	Shot and repairing	3 92
2061	"	Armour & Co	Services	1 75
2062	"	Fuller & Fuller Co	Pigs bags	1 00
2063	"	A. B. Dick Co	Chemicals	19 03
2064	"	D. H. Lloyde & Sons	Mimeograph supplies	2 40
2065	"	T. H. Trevett	Book, etc	29 94
2066	"	G. C. Willis	Lantern, nails, etc	6 87
2067	"	R. S. Wilber	Cloth, etc	70 75
2068	"	Chas. A. Besore	Hauling	148 15
2069	"	<i>The Gazette</i>	Lumber	126 47
2070	"	<i>Champaign County Herald</i>	Printing, etc	104 50
2071	"	Western Electrical Instur. Co.	Electrical supplies	77 26
2072	"	Wm. D. Pence	Expressage	10 60
2073	"	American Society of C. E.	Book	1 50
2074	"	Gowing & Co	Calorimeter	1 50
2075	"	Kueffel & Esser Co	Protractor, etc	28 00
2076	"	William Cox	Computer	8 73
2077	"	Riehle Bros	Computer	3 60
2078	"	Wm. J. Bohm	Sieves	12 20
2079	"	Hubbard & Sons	Hardware	6 50
2080	"	Ward's Nat. Science Estab't	Tubes	15 20
2081	"	J. C. Winship Co	Bird skins	29 25
2082	"	Alexander Lumber Co	Circulars	15 75
2083	"	C. H. Mills	Lumber	34 04
2084	"	H. M. Dickson Mfg. Co	Mare	8 00
2085	"	Callaghan & Co	Doors, glass, etc	60 92
2086	"	Walker & Mulliken	Books	8 00
2087	"	<i>School News and Prac. Educ'r</i>	Frames, chairs, etc	29 75
2088	"	Gaertner & Regennas	Advertisement	12 48
2089	"	E. R. Bowker	Repairing	2 50
2090	"	F. M. Morris	Books	5 00
2091	"	Boston Book Co	Library Journal	5 75
2092	"	The Burrows Bros. Co	Book	20 00
2093	"	Freidenker Pub. Co	Book	7 00
2094	"	Armour Inst. of Technology	Index	2 00
2095	"	Bausch & Lomb Optical Co	Slips, covers, squares, etc	12 50
2096	"	Wm. H. Armstrong & Co	Forceps, syringe, etc	47 64
2097	"	D. P. & John Wilkinson Co	Tool holder	19 90
2098	"	Brainard Milling Mach. Co	Repairing machine	1 25
2099	"	Machinists Supply Co	Cutters, pins, studs, etc	12 00
2100	"	Jones & Laughlins Co	Bolts and beams	6 06
2101	"	Mittendorf & Kiler	Rubber tips, baskets, etc	6 43
2102	"	H. M. Shuck & Co	Hooks and glue	23 80
2103	"	Westinghouse, Church, Kerr Co	Oil	1 70
2104	"	Standard Oil Co	"	8 93
2105	"	J. C. Vaughan	"	22 75
2106	"	S. B. Hedges	Seeds	39 21
			Milk	12 88

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2107	April 15	Library Bureau	Pads and pens	\$9 00
2108	"	Champaign Mach. & Supply Co	Hanger, pulleys, etc.	28 54
2109	"	E. Henry	Brooms, shellac, etc.	39 73
2110	"	Yale & Towne Mfg. Co.	Keys	2 34
2111	"	Urb. & Cham. Ry. Gas & El. Co.	Gas and electricity	1,088 68
2112	"	Cunningham Bros	Paper	6 35
2113	"	M. C. Lilley & Co	Flag, sword and belt	69 80
2114	"	A. C. McClurg & Co	Books, stationery, etc.	100 02
2115	"	William Price Estate.	Moulding, shades, glass, etc	268 35
2116	"	Henry Trevett	Chalk lines and plumb bobs	1 10
2117	"	W. A. Olmsted Scientific Co.	Glasses and stands	8 22
2118	"	H. D. Stoltey & Co	Rubber boots	4 50
2119	"	W. S. Royal	Oil	1 30
2120	"	Public School Pub. Co	Advertisement	12 50
2121	"	Edward Thompson Co	Books	76 00
2122	"	Geo. F. Blake Mfg. Co	Canvas	2 00
2123	"	Boyer Ry. Speed Recorder Co	Speed recorder	80 00
2124	"	A. P. Garman	Expenses	7 60
2125	"	M. B. Hammond		15 55
2126	"	Odin Coal Co	Coal	788 40
2127	"	H. W. Lynch		275 27
2128	"	Hubbard & Sons	Hardware and labor	10 89
2129	"	Bausch & Lomb Optical Co.	Microscope	29 00
2130	"	A. A. A. Coll. Exp. St.	Membership fee	10 00
2131	"	David Kinley	Expenses	13 91
2132	"	Unlap & Wright	Contract plumbing and labor	65 40
2133	"	Orr & Lockett Hardware Co	Locks and hinges	104 66
2134	"	Central Electric Co	Fibre	4 85
2135	"	E. H. Renner & Bro	Hauling	19 55
2136	"	E. Davenport	Expenses	8 20
2137	"	The Kny-Scheerer Co	Myographion, knives, etc.	94 40
2138	"	C. H. Russell & Co.	Doors, keys, etc.	1 85
2139	"	Francke Hardware Co.	Screws, washers, etc	18 30
2140	"	Frank F. Frederick	Services, hooks, etc	11 93
2141	"	Gustav E. Stechert	Books	249 50
2142	"	Riehle Bros. Testing Mach. Co.	Sp. grav. apparatus	6 05
2143	"	Central Union Telephone Co.	Telephone service	15 50
2144	"	W. W. Lindley	Stamps	35 00
2145	"	T. R. Leal	Hauling	56 80
2146	"	J. B. Colt & Co.	Carbons	5 00
2147	"	S. W. Shattuck, Business Mgr.	Expressage	63 37
2148	"	"	Freight	144 70
2149	"	"	Pay rolls of men, March, 1898.	1,392 78
2150	"	"	students, March, 1898.	277 60
2151	April 30	The J. C. Witter Co.	Portfolio	3 75
2152	"	Edward Thompson Co	Books	3 00
2153	"	Callaghan & Co		4 00
2154	"	<i>The Chicago Record</i>	Daily News Almanac	3 00
2155	"	The Burrows Bros. Co.	Books	7 00
2156	"	Champaign Mach. & Supply Co	Belting reducers	17 35
2157	"	C. H. Baddeley	Beef and lamp	4 01
2158	"	<i>The Gazette</i>	Cardboard, pedigree blanks, etc	12 85
2159	"	Narragansett Machine Co.	Parallel bars, etc.	52 50
2160	"	A. G. Spalding & Bros	Buck, striking bags, etc.	58 25
2161	"	Chas. A. Besore	Lumber	27 06
2162	"	William Price Estate	Oil, shades, etc	80 46
2163	"	Central Electric Co	Insulators, tubes, etc	53 56
2164	"	John A. Roebling's Sons Co.	Wire	65 13
2165	"	Crane Co	Pipe, etc	31 42
2166	"	John F. Townsley Mfg. Co	Trucks	24 00
2167	"	Eimer & Amend	Thermometers, tubing, etc.	71 31
2168	"	Hubbard & Sons	Enamel register, etc.	4 25
2169	"	Singbusch & Stoltey	Soap	1 00
2170	"	Pulsometer Steam Pump Co	Pulsometer	90 00
2171	"	Henry Trevett	Hardware	15 35
2172	"	Twin City Ice & Cold St'ge Co.	Ice	2 80
2173	"	Fuller & Fuller Co	Chemicals	12 60
2174	"	Urbana & Cham. Gas & Elec. Co	Coke	4 50
2175	"	Chicago General Fixture Co	Posts, wire, etc	12 74
2176	"	A. C. McClurg & Co	Books	120 33
2177	"	Gustav E. Stechert		425 01
2178	"	T. H. Trevett	Rope, plyers, etc.	5 60
2179	"	American Society of M. E.	Copies of paper	1 15
2180	"	J. C. Vaughan	Seeds	10 85
2181	"	E. S. Golden	Shovel and rakes	1 80
2182	"	Mrs. John Conkle	Sewing covers	3 75

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2183	April 30	Knowlton & Bennett.....	Lenses, paper, etc.....	\$3 70
2184	"	John Armstrong.....	Rubber boots.....	2 50
2185	"	J. D. Green.....	Labor and materials.....	15 90
2186	"	W. W. Walls & Co.....	Lumber.....	100 44
2187	"	Chas. H. Besley & Co.....	Machine screws.....	1 26
2188	"	Bausch & Lomb Optical Co.....	Lenses, etc.....	22 25
2189	"	Electric Appliance Co.....	Electrical supplies.....	25 00
2190	"	General Electric Co.....	Lamps.....	52 50
2191	"	Alexander Lumber Co.....	Lumber.....	7 25
2192	"	Ella H. Morrison.....	Expenses.....	1 85
2193	"	F. K. Robeson & Bro.....	Napkins and cuspidors.....	1 10
2194	"	The Michigan Pipe Co.....	Pipe.....	149 24
2195	"	Thomas J. Smith (Trustee).....	Expenses.....	29 66
2196	"	W. L. Pillsbury.....		13 36
2197	"	Ozias Riley.....	Stamps.....	38 00
2198	"	S. B. Hedges.....	Hauling.....	10 00
2199	"	E. H. Renner & Bro.....	Hauling, etc.....	55 07
2200	"	T. R. Leal.....	Grading, etc.....	160 26
2201	"	A. S. Draper.....	Salary, April, 1898.....	583 33
2202	"	T. J. Burrill.....		200 00
2203	"	S. W. Shattuck.....		166 66
2204	"	N. C. Ricker.....		191 66
2205	"	Ira O. Baker.....		187 50
2206	"	S. A. Forbes.....		83 33
2207	"	C. W. Rolfe.....		175 00
2208	"	D. McIntosh.....		50 00
2209	"	A. N. Talbot.....		175 00
2210	"	A. W. Palmer.....		175 00
2211	"	F. F. Frederick.....		158 33
2212	"	S. W. Parr.....		175 00
2213	"	H. J. Barton.....		175 00
2214	"	C. M. Moss.....		175 00
2215	"	D. K. Dodge.....		166 66
2216	"	L. P. Breckenridge.....		187 50
2217	"	D. Kinley.....		187 50
2218	"	E. Davenport.....		95 83
2219	"	A. Tompkins.....		166 66
2220	"	A. P. Carman.....		187 50
2221	"	W. H. Jones.....		100 09
2222	"	E. B. Greene.....		141 66
2223	"	Geo. E. Gardener.....		166 66
2224	"	C. C. Pickett.....		125 00
2225	"	Katharine L. Sharp.....		166 66
2226	"	Geo. T. Kemp.....		166 66
2227	"	George W. Myers.....		150 00
2228	"	Edgar J. Townsend.....		137 50
2229	"	J. M. White.....		133 33
2230	"	L. A. Rhoades.....		141 66
2231	"	H. H. Everett.....		133 33
2232	"	W. H. VanDervoort.....		137 50
2233	"	W. D. Pence.....		133 33
2234	"	H. S. Grindley.....		108 33
2235	"	T. A. Clark.....		133 33
2236	"	H. S. Piatt.....		100 03
2237	"	B. V. Swenson.....		108 33
2238	"	A. H. Daniels.....		108 33
2239	"	George D. Fairfield.....		108 33
2240	"	C. W. Tooke.....		108 33
2241	"	Fred A. Sager.....		100 00
2242	"	William Esty.....		108 33
2243	"	Frank Smith.....		100 00
2244	"	C. D. McLane.....		100 00
2245	"	P. G. Holden.....		54 16
2246	"	J. E. McGilvrey.....		108 33
2247	"	Seth J. Temple.....		100 00
2248	"	J. D. Phillips.....		83 33
2249	"	Violet D. Jayne.....		125 00
2250	"	Oscar Quick.....		80 00
2251	"	E. J. Lake.....		70 00
2252	"	Ella H. Morrison.....		100 00
2253	"	George A. Huff.....		120 00
2254	"	W. J. Fraser.....		37 50
2255	"	C. R. Rose.....		80 00
2256	"	J. C. Blair.....		45 83
2257	"	Margaret Mann.....		75 00
2258	"	Allison M. Fernie.....		100 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2258	April 30	Agnes S. Cook.....	Salary, April, 1898.....	\$70 00
2260	"	A. C. Howland.....	"	80 00
2261	"	Chester H. Rowell.....	"	70 00
2262	"	Geo. H. Meyer.....	"	70 00
2263	"	W. H. Kavanaugh.....	"	80 00
2264	"	J. P. Hylan.....	"	80 00
2265	"	Alice Putnam.....	"	80 00
2266	"	A. C. Burnham.....	"	90 00
2267	"	Maude W. Striaght.....	"	75 00
2268	"	Charles F. Hottes.....	"	70 00
2269	"	W. C. Brenke.....	"	75 00
2270	"	C. T. Wilder.....	"	70 00
2271	"	Jessie Y. Fox.....	"	30 00
2272	"	J. H. McKee.....	"	50 00
2273	"	G. D. Hubbard.....	"	50 00
2274	"	H. A. Webber.....	"	50 00
2275	"	C. V. Seastone.....	"	50 00
2276	"	R. B. Ketchum.....	"	50 00
2277	"	H. V. Carpenter.....	"	50 00
2278	"	J. L. Sammis.....	"	50 00
2279	"	M. B. Hammond.....	"	50 00
2280	"	Anna Fossler.....	"	50 00
2281	"	C. B. Clark.....	"	85 00
2282	"	A. R. Curtiss.....	"	85 00
2283	"	Henry Jones.....	"	75 00
2284	"	J. H. Wilson.....	"	60 00
2285	"	D. H. Carnahan.....	"	60 00
2286	"	A. C. Hobart.....	"	30 00
2287	"	F. W. Schacht.....	"	30 00
2288	"	A. E. Paul.....	"	30 00
2289	"	Don Sweeney.....	"	30 00
2290	"	A. S. Williamson.....	"	10 00
2291	"	E. G. Howe.....	"	150 00
2292	"	Lillie A. Clendenin.....	"	65 00
2293	"	R. S. Douglass.....	"	75 00
2294	"	C. B. Randolph.....	"	70 00
2295	"	C. W. Alvord.....	"	70 00
2296	"	W. L. Pillsbury.....	"	162 50
2297	"	D. McInosh.....	"	75 00
2298	"	C. V. Millar.....	"	70 00
2299	"	R. W. Stark.....	"	50 00
2300	"	Geo. W. Graham.....	"	100 00
2301	"	Lillie Heath.....	"	75 00
2302	"	Sue W. Ford.....	"	55 00
2303	"	L. A. Boice.....	"	55 00
2304	"	Jennie M. Laffin.....	"	45 00
2305	"	Georgia E. Hopper.....	"	30 00
2306	"	Aldeade M. Chase.....	"	25 00
2307	"	Mary T. Pierce.....	"	25 00
2308	"	W. O. Waters.....	"	20 00
2309	"	F. J. Foote.....	"	75 00
2310	"	Joe Morrow.....	"	75 00
2311	"	E. W. Justus.....	"	50 00
2312	"	W. H. Zimmerman.....	"	60 00
2313	"	M. T. Lindsey.....	"	40 00
2314	"	R. Uttenweiler.....	"	60 00
2315	"	Fred Atkinson.....	"	35 00
2316	"	Chas. B. Ewalt.....	"	25 00
2317	"	J. H. Allen.....	"	40 00
2318	"	Henry J. East.....	"	40 00
2319	"	Pearl Adams.....	"	40 00
2320	"	W. R. Hoffman.....	"	37 00
2321	"	L. G. Lathrop.....	"	32 00
2322	"	J. J. Johnson.....	"	32 00
2323	"	E. A. Nelson.....	"	32 00
2324	"	Elbert E. Pound.....	"	32 00
2325	"	A. S. Golden.....	"	32 00
2326	"	Allen McGlaughlin.....	"	32 00
2327	"	Philip Schwehrm.....	"	27 00
2328	May 14	J. C. Sedgwick.....	Payment on contract.....	456 00
2329	"	G. G. Keith.....	Clerk services.....	150 00
2330	"	James B. Clow & Sons.....	Copper floats, etc.....	28 98
2331	"	Whitall, Tatum & Co.....	Tincture, etc.....	15 69
2332	"	Queen & Co.....	Induction oil.....	35 50
2333	"	L. E. Knott Appliance Co.....	Meter sticks, etc.....	49 40
2334	"	Cleveland Public Library.....	Index.....	5 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2335	May 14	<i>The Publishers Weekly</i>	"	\$1 50
2336	"	City of Urbana.....	Publication and survey.....	100 40
2337	"	F. A. Sackmann.....	Stamp.....	2 04
2338	"	<i>The P. & S. Plexus</i>	Advertisement.....	21 00
2339	"	William Price Estate.....	Varnish, etc.....	205 94
2340	"	Orr & Lockett Hardware Co... ..	Hooks and belts.....	5 20
2341	"	L. Myrtle Green.....	Typewriting and postage	3 58
2342	"	H. M. Hooker & Co.....	White lead, etc.....	61 00
2343	"	Fred P. Rush & Co.....	Coal.....	21 17
2344	"	W. S. Royal.....	Oil and gasoline	1 95
2345	"	Henry Trevett.....	Wire, etc.....	2 10
2346	"	Chicago Retort & Fire Brick Co	Brick.....	185 80
2347	"	Seth J. Temple.....	Expenses.....	9 46
2348	"	Electric Appliance Co.....	Electrical supplies	106 94
2349	"	Chas. A. Schieren & Co.....	Belting.....	344 84
2350	"	T. R. Leal.....	Labor and hauling.....	105 50
2351	"	Schaffer & Budenberg.....	Tachometer and ejector.....	63 00
2352	"	Thompson & Bushnell.....	Reducing wheels and indicators..	111 50
2353	"	C. H. Baddeley.....	Tumblers, etc.....	5 83
2354	"	Alexander Lumber Co.....	Lumber.....	15 64
2355	"	The Davis Motor Co., Limited.	Electrical instrument.....	515 28
2356	"	Peoria Steam Marble Works.....	Slabs.....	170 00
2357	"	The Electric Arc Light Co.....	Bulbs.....	3 00
2358	"	Western Electric Co.....	Electrical supplies.....	80 27
2359	"	Buffalo Meter Co.....	Meter.....	8 50
2360	"	R. Abernathy.....	Sign writing.....	6 35
2361	"	Curtis & Curtis.....	Plate, etc.....	15 00
2362	"	J. C. Vaughan.....	Seeds.....	9 10
2363	"	E. G. Howe.....	Expenses.....	4 80
2364	"	William R. Ware.....	Blue prints.....	7 50
2365	"	Blue Print Department.....	Blue printing.....	33 72
2366	"	J. W. Butler Paper Co.....	Paper.....	13 15
2367	"	A. C. McClurg & Co.....	Books, etc.....	114 59
2368	"	West Publishing Co.....	"	34 50
2369	"	Callaghan & Co.....	Book.....	3 50
2370	"	The Helman-Taylor Co.....	Books.....	5 00
2371	"	Ward Bros.....	"	59 40
2372	"	The Chas. A. Strelinger Co....	Washers, etc.....	10 37
2373	"	Central Electric Co.....	Wire.....	32 38
2374	"	Francke Hardware Co.....	Screws and casters.....	9 52
2375	"	Westinghouse Elect. & Mfg Co.	Punchings.....	19 40
2376	"	Eimer & Amend.....	Flasks, etc.....	28 16
2377	"	Robinson & Burr.....	Machine supplies, etc.....	75 10
2378	"	Twin City Electric Co.....	Wire, etc.....	10 05
2379	"	Champaign Mach. & Supply Co	Machine supplies.....	67 06
2380	"	Walch & Wyeth.....	Magnesia covering.....	105 06
2381	"	Neptune Meter Co.....	Meter.....	22 50
2382	"	Crosby Steam Gage & Valve Co	Indicator, etc.....	22 81
2383	"	John B. Bennett.....	Masonry and labor.....	137 85
2384	"	General Electric Co.....	Electric supplies.....	67 13
2385	"	Thos. Wright & Son.....	Catch basin.....	5 50
2386	"	Liquid Carbonic Acid Mfg Co..	Drum gas.....	3 00
2387	"	West Publishing Co.....	Advertisement.....	55 00
2388	"	<i>The 1898 Illio</i>	Plates.....	20 00
2389	"	Eichberg & Baer.....	Wire mats.....	5 00
2390	"	C. A. Besore.....	Coal, etc.....	183 55
2391	"	W. W. Lindley.....	Stamps.....	116 00
2392	"	Ozias Riley.....	Postage stamps.....	65 00
2393	"	E. H. Renner & Bro.....	Hauling.....	53 35
2394	"	A. G. Spaulding & Bros.....	Gymnasium apparatus.....	421 28
2395	"	T. R. Leal.....	Hauling and labor.....	117 61
2396	"	S. W. Shattuck, business mgr.	Freight.....	120 15
2397	"	"	Express.....	69 50
2398	"	"	Petty expenses.....	141 47
2399	"	"	Pay rolls of men, April, 1898	1,254 88
2400	"	"	students,	225 28
2401	May 31	A. S. Draper.....	Salary for May, 1898.....	583 33
2402	"	T. J. Burrill.....	"	200 00
2403	"	S. W. Shattuck.....	"	166 66
2404	"	N. C. Ricker.....	"	191 66
2405	"	Ira O. Baker.....	"	187 50
2406	"	S. A. Forbes.....	"	83 33
2407	"	C. W. Rolfe.....	"	175 00
2408	"	D. McIntosh.....	"	50 00
2409	"	A. N. Talbot.....	"	175 00
2410	"	A. W. Palmer.....	"	175 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2411	M Y . 31	F. F. Frederick.....	Salary for May, 1898.....	\$158 33
2412	"	S. W. Parr.....	"	175 00
2413	"	H. J. Barton.....	"	175 00
2414	"	Charles M. Moss.....	"	175 00
2415	"	D. K. Dodge.....	"	166 66
2416	"	L. P. Breckenridge.....	"	187 50
2417	"	David Kinley.....	"	187 50
2418	"	E. Davenport.....	"	9 83
2419	"	Arnold Tompkins.....	"	166 66
2420	"	A. P. Carman.....	"	187 50
2421	"	Walter H. Jones.....	"	100 00
2422	"	E. B. Greene.....	"	141 66
2423	"	Geo. E. Gardener.....	"	166 66
2424	"	C. C. Pickett.....	"	125 00
2425	"	Katharine L. Sharp.....	"	166 66
2426	"	Geo. T. Kemp.....	"	166 66
2427	"	George W. Myers.....	"	150 00
2428	"	E. J. Townsend.....	"	137 50
2429	"	James M. White.....	"	133 33
2430	"	Lewis A. Rhoades.....	"	141 66
2431	"	Henry H. Everett.....	"	133 33
2432	"	W. H. VanDervoort.....	"	137 50
2433	"	W. D. Pence.....	"	133 33
2434	"	H. S. Grindley.....	"	108 33
2435	"	T. A. Clark.....	"	133 33
2436	"	H. S. Piatt.....	"	100 00
2437	"	B. V. Swenson.....	"	108 33
2438	"	A. H. Daniels.....	"	108 33
2439	"	George D. Fairfield.....	"	108 33
2440	"	C. W. Tooke.....	"	108 33
2441	"	Fred A. Sager.....	"	100 00
2442	"	William Esty.....	"	108 33
2443	"	Frank Smith.....	"	100 00
2444	"	C. D. McLane.....	"	100 00
2445	"	P. G. Holden.....	"	54 16
2446	"	J. E. McGilvrey.....	"	108 33
2447	"	Seth J. Temple.....	"	100 00
2448	"	J. D. Phillips.....	"	83 33
2449	"	Violet D. Jayne.....	"	125 00
2450	"	Oscar Quick.....	"	80 00
2451	"	Edward J. Lake.....	"	70 00
2452	"	Ella H. Morrison.....	"	100 00
2453	"	George A. Huff.....	"	120 00
2454	"	W. J. Fraser.....	"	37 50
2455	"	Carlton R. Rose.....	"	80 00
2456	"	Joseph C. Blair.....	"	45 83
2457	"	Margaret Mann.....	"	75 00
2458	"	Alison M. Fernie.....	"	100 00
2459	"	Agnes S. Cook.....	"	70 00
2460	"	A. C. Howland.....	"	80 00
2461	"	Chester H. Rowell.....	"	70 00
2462	"	Geo. H. Meyer.....	"	70 00
2463	"	W. H. Kavanaugh.....	"	80 00
2464	"	J. P. Hylan.....	"	80 00
2465	"	Alice Putnam.....	"	80 00
2466	"	A. C. Burnham.....	"	90 00
2467	"	Maude W. Straight.....	"	75 00
2468	"	Charles F. Hottes.....	"	70 00
2469	"	W. C. Brenke.....	"	75 00
2470	"	C. T. Wilder.....	"	70 00
2471	"	Jessie Y. Fox.....	"	30 00
2472	"	James H. McKee.....	"	50 00
2473	"	George D. Hubbard.....	"	50 00
2474	"	H. A. Webber.....	"	50 00
2475	"	C. V. Seastone.....	"	50 00
2476	"	R. B. Ketchum.....	"	50 00
2477	"	H. V. Carpenter.....	"	50 00
2478	"	J. L. Sammis.....	"	50 00
2479	"	M. B. Hammond.....	"	50 00
2480	"	Anna Fossler.....	"	50 00
2481	"	C. B. Clark.....	"	85 00
2482	"	A. R. Curtiss.....	"	85 00
2483	"	Henry Jones.....	"	60 00
2484	"	J. H. Wilson.....	"	60 00
2485	"	D. H. Carnaham.....	"	30 00
2486	"	A. C. Hobart.....	"	30 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2487	1898.			
2487	May 31	F. W. Schacht.....	Salary for May, 1898.....	\$30 00
2488	"	A. E. Paul.....	"	30 00
2489	"	Don Sweeney.....	"	30 00
2490	"	A. S. Williamson.....	"	10 00
2491	"	Edward G. Howe.....	"	150 00
2492	"	Lillie A. Clendenin.....	"	65 00
2493	"	R. S. Douglass.....	"	75 00
2494	"	C. B. Randolph.....	"	70 00
2495	"	C. W. Alvord.....	"	70 00
2496	"	W. L. Pillsbury.....	"	162 50
2497	"	D. McIntosh.....	"	75 00
2498	"	C. V. Millar.....	"	75 00
2499	"	R. W. Stark.....	"	50 00
2500	"	George W. Graham.....	"	100 00
2501	"	Lillie Heath.....	"	75 00
2502	"	Sue W. Ford.....	"	55 00
2503	"	L. A. Boice.....	"	55 00
2504	"	Jennie M. Laffin.....	"	45 00
2505	"	Georgia E. Hopper.....	"	30 00
2506	"	Adelaide M. Chase.....	"	25 00
2507	"	Mary T. Pierce.....	"	25 00
2508	"	W. O. Waters.....	"	20 00
2509	"	Henry J. East.....	"	40 00
2510	"	Pearl Adams.....	"	40 00
2511	"	W. R. Hoffman.....	"	37 00
2512	"	L. G. Lathrop.....	"	32 00
2513	"	J. J. Johnson.....	"	32 00
2514	"	E. A. Nelson.....	"	32 00
2515	"	Elbert E. Pound.....	"	32 00
2516	"	A. S. Golden.....	"	32 00
2517	"	Allen McGlaughlin.....	"	32 00
2518	"	Philip Schwehm.....	"	27 00
2519	"	F. J. Foote.....	"	75 00
2520	"	Joe Morrow.....	"	75 00
2521	"	E. W. Justus.....	"	50 00
2522	"	W. H. Zimmerman.....	"	60 00
2523	"	M. T. Lindsey.....	"	40 00
2524	"	J. H. Allen.....	"	40 00
2525	"	R. Uttenweiler.....	"	60 00
2526	"	Fred Atkinson.....	"	35 00
2527	"	Chas. B. Ewalt.....	"	25 00
2528	"	Champaign M. & Supply Co.....	Valves, etc.....	5 67
2529	"	D. H. Lloyd & Sons.....	Note books, paper, etc.....	14 80
2530	"	Hubbard & Sons.....	Sewer pipe, etc.....	89 30
2531	"	Mittendorf & Kiler.....	Picture frames, etc.....	49 88
2532	"	Chas. F. Witt.....	Rings, straps, etc.....	12 00
2533	"	H. Swannell.....	Toilet paper, etc.....	27 45
2534	"	A. S. Nelson & Son.....	Butter.....	1 75
2535	"	Champaign County Herald.....	Printing.....	60 43
2536	"	Champaign County Ptg. Co.....	" etc.....	67 97
2537	"	E. Barr.....	Brick.....	1 75
2538	"	N. W. Davis.....	Sand.....	1 20
2539	"	Sheldon Brick Co.....	".....	2 80
2540	"	Twin City Electric Co.....	Switches.....	1 50
2541	"	Baker & Adamson Chem. Co.....	Filter.....	7 98
2542	"	The Indiana Chemical Co.....	Acid, bottles, and cans.....	13 80
2543	"	Fuller & Fuller Co.....	Chemicals.....	19 72
2544	"	Falls Rivet & Machinery Co.....	Pulleys.....	2 72
2545	"	The Watson-Stillman Co.....	Cup packings.....	6 03
2546	"	American Society of M. E.....	Copies of paper.....	4 90
2547	"	Crosby Steam Gauge & Valve Co.....	Recorder, gauge, etc.....	96 18
2548	"	Machinists' Supply Co.....	Castings brushes.....	2 10
2549	"	Jones & Laughlins Co.....	Bolts and screws.....	2 64
2550	"	Chas. H. Besly & Co.....	Spring brass, etc.....	4 03
2551	"	Chicago Retort & Fire Br. Co.....	Brick.....	110 00
2552	"	Chas. A. Schieren & Co.....	Leather belting.....	136 20
2553	"	Joseph Wilckes.....	Econometer.....	81 00
2554	"	North Central Association.....	Fee.....	3 00
2555	"	Kinsey & Mahler Co.....	Castings.....	3 49
2556	"	Edwin H. Pierce.....	Piano box.....	2 00
2557	"	Eugene Dietzgen Co.....	Regulation paper.....	7 76
2558	"	Library Bureau.....	Book supports, etc.....	58 65
2559	"	Callaghan & Co.....	Books.....	2 25
2560	"	Houghton, Mifflin & Co.....	Book.....	25 00
2561	"	A. C. McClurg & Co.....	Books, etc.....	47 73
2562	"	Nicholas Murray Butler.....	Expenses.....	68 00

Warrants—Concluded.

No.	Date.	To whom paid.	For what.	Amount.
2563	May 31	1898. W. T. Harris	Expenses	\$48 50
2564	"	John B. Bennett	Brick, etc.	37 55
2565	"	W. Z. Wiley	Expenses	9 30
2566	"	T. E. Howard	"	9 30
2567	"	L. J. Hackney	"	9 30
2568	"	Geo. B. Wilson	"	53 19
2569	"	C. V. Millar	"	10 00
2570	"	Eimer & Amend	Chemicals	81 91
2571	"	Odin Coal Co.	Coal	401 00
2572	"	<i>Illinois Agriculturist</i>	Publication	50 00
2573	"	J. H. Young	Expenses on <i>Technograph</i>	100 00
2574	"	Max Kaehler & Martini	Apparatus	560 06
2575	"	E. H. Renner & Bro	Hauling	46 69
2576	"	Robinson & Burr	Heating contracts, etc	652 61
2577	"	<i>The Gazette</i>	Printing, etc	152 35
2578	"	Tower Mfg & Novelty Co	Ad ders	7 89
2579	"	<i>The Illini</i>	Advertisement	125 00
2580	"	A. E. Wuesteman	Pins and medals	50 20
2581	"	Katharine L. Sharp	Expenses	18 20
2582	"	W. H. Owens	Mimeograph copies	14 00
2583	"	J. C. Sedgwick	Payment on contract	500 00
2584	June 15	B. A. Bullard	Expenses	40 30
2585	"	Alex McLean	"	59 46
2586	"	N. B. Morrison	"	58 50
2587	"	Isaac S. Raymond	"	20 05
2588	"	A. S. Draper	"	88 65
2589	"	Wm. H. Maxwell	"	100 00
2590	"	L. A. Rhoades	"	51 70
2591	"	J. E. McGilvrey	"	8 00
2592	"	Union Manufacturing Co.	Water service	500 00
2593	"	A. W. Palmer	Part sal. quarter ending May 31, '95	25 00
2594	"	Inland Publishing Co.	Engraving and printing	698 50
2595	"	T. R. Leal	Hauling and labor	135 25
2596	"	John B. Bennett	Materials and labor	326 00
2597	"	The Chesapeake & Ohio Co.	Coal	214 91
2598	"	Thomas Naughton	Photos	38 90
2599	"	<i>Champaign Co. Herald</i>	Printing	36 75
2600	"	The Kny-Scheerer Co.	Model of brain	70 60
2601	"	J. E. Armstrong	Expenses	39 08
2602	"	Pitkin & Brooks	China ware, forks, etc.	255 53
2603	"	Miles Newberry	Part salary for June	25 00
2604	"	L. Goodman	Services	26 40
2605	"	C. H. Baddeley	Provisions	42 50
2606	"	J. M. Chase	Painting President's house	131 00
2607	"	Wm. H. Armstrong	Instruments	22 85
2608	"	Bausch & Lomb Optical Co	Instruments, etc	82 78
2609	"	P. Blakiston Son & Co.	Books	11 50
2610	"	<i>The Gazette</i>	Printing	350 44
2611	"	W. S. Royal	Oil	2 60
2612	"	Standard Oil Co.	"	21 88
2613	"	H. M. Shuck & Co.	Nails, etc	4 00
2614	"	Champaign Tile Co.	Tile	82 84
2615	"	Academy of Nat. Science, Phila	Publication	5 00
2616	"	The Burrows Bros. Co.	Book	7 00
2617	"	N. O. Nelson M'g Co	Pipe and fittings	17 58
2618	"	Murphy Iron Works	Governor shaft	2 50
2619	"	Schaffer & Budenberg	Recording gauge, etc	190 29
2620	"	Falls Rivet & Machinery Co.	Pulleys	139 52
2621	"	Illinois Electric Co.	Battery cells	21 25
2622	"	Machinists Supply Co.	Waste	7 31
2623	"	Wadham's Oil and Grease Co.	Oil	12 29
2624	"	Callaghan & Co.	Book	3 50
2625	"	The Lukenheimer Co.	Indicator cock, etc.	10 47
2626	"	Chas. Strelinger Co.	Tools, etc.	10 03
2627	"	Adam Cook's Sons	Oil and grease	51 45
2628	"	Eimer & Amend	Tubes, etc	40 50
2629	"	Western Bank Note & Eng. Co.	Plates and diplomas	265 00
2630	"	J. W. Olcott & Co.	Induction coil	9 00
2631	"	Corning & Co.	Alcohol	32 57
2632	"	Lawton & Co.	Duplicator and refilling	9 15
2633	"	Miller & Leming	Tripod legs and stands	5 05
2634	"	A. E. Wuesteman	Oil, etc.	4 30
2635	"	E. S. Golden	Labor and materials	5 65
2636	"	W. I. Saffell & Co.	Frames	7 80
2637	"	E. G. Howe	Expenses	3 04
2638	"	E. O. Vaile	Advertising	5 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2639	June 15	C. W. Rolfe.....	Camera.....	\$7 00
2640	"	A. W. Mumford.....	Advertising.....	3 60
2641	"	Ozias Riley.....	Stamps.....	220 00
2642	"	W. W. Lindley.....	Postage.....	125 00
2643	"	E. H. Renner & Bro.....	Hauling.....	66 62
2644	"	S. W. Shattuck, business mgr.	Expressage.....	53 40
2645	"	"	"	41 05
2646	"	"	Freightage.....	143 24
2647	"	"	Sundry items.....	59 15
2648	"	C. T. Wilder.....	Photos and Paper.....	3 00
2649	"	S. W. Shattuck, business mgr.	Pay rolls of men, May, 1898.....	1,305 86
2650	June 30	"	Pay rolls of students, May, 1898.....	790 12
2651	"	A. S. Draper.....	Salary, June, 1898.....	555 33
2652	"	T. J. Burrill.....	"	200 00
2653	"	S. W. Shattuck, business mgr.	"	166 66
2654	"	N. C. Ricker.....	"	191 60
2655	"	Ira O. Baker.....	"	187 50
2656	"	S. A. Forbes.....	"	83 33
2657	"	C. W. Rolfe.....	"	175 00
2658	"	D. McIntosh.....	"	50 00
2659	"	A. N. Talbot.....	"	175 00
2660	"	A. W. Palmer.....	"	175 00
2661	"	F. F. Frederick.....	"	158 33
2662	"	S. W. Parr.....	"	175 00
2663	"	H. F. Barton.....	"	175 00
2664	"	C. M. Moss.....	"	175 00
2665	"	D. K. Dodge.....	"	166 66
2666	"	L. P. Breckenridge.....	"	187 50
2667	"	D. Kinley.....	"	187 50
2668	"	E. Davenport.....	"	95 83
2669	"	A. Tompkins.....	"	166 66
2670	"	A. P. Carman.....	"	187 50
2671	"	W. H. Jones.....	"	100 00
2672	"	E. B. Greene.....	"	141 66
2673	"	Geo. E. Gardener.....	"	166 66
2674	"	C. C. Pickett.....	"	125 00
2675	"	Katharine L. Sharp.....	"	166 66
2676	"	Geo. T. Kemp.....	"	166 66
2677	"	Geo. W. Myers.....	"	150 00
2678	"	E. J. Townsend.....	"	137 50
2679	"	J. M. White.....	"	133 33
2680	"	L. A. Rhoades.....	"	141 66
2681	"	H. H. Everett.....	"	133 33
2682	"	W. H. Van Dervoort.....	"	137 50
2683	"	W. D. Pence.....	"	133 33
2684	"	H. S. Grindly.....	"	108 33
2685	"	T. A. Clark.....	"	133 33
2686	"	H. S. Platt.....	"	100 00
2687	"	B. V. Swensen.....	"	108 33
2688	"	A. H. Daniels.....	"	108 33
2689	"	G. D. Fairfield.....	"	108 33
2690	"	C. W. Tooke.....	"	108 33
2691	"	F. A. Sager.....	"	100 00
2692	"	William Esty.....	"	108 33
2693	"	Frank Smith.....	"	100 00
2694	"	C. D. McLane.....	"	100 00
2695	"	P. G. Holden.....	"	54 16
2696	"	J. E. McGilvrey.....	"	108 33
2697	"	Seth J. Temple.....	"	100 00
2698	"	J. D. Phillips.....	"	53 33
2699	"	Violet D. Jayne.....	"	125 00
2700	"	Oscar Quick.....	"	80 00
2701	"	E. J. Lake.....	"	70 00
2702	"	Ella H. Morrison.....	"	100 00
2703	"	Geo. A. Huff.....	"	120 00
2704	"	Wm. J. Fraser.....	"	37 50
2705	"	C. R. Rose.....	"	80 00
2706	"	J. C. Blair.....	"	45 83
2707	"	Margaret Mann.....	"	75 00
2708	"	Alison M. Fernie.....	"	100 00
2709	"	Agnes S. Cook.....	"	70 00
2710	"	A. C. Howland.....	"	80 00
2711	"	Chester H. Rowell.....	"	70 00
2712	"	Geo. H. Meyer.....	"	70 00
2713	"	W. H. Kavanaugh.....	"	80 00
2714	"	J. P. Hylan.....	"	80 00
2715	"	Alice Putnam.....	"	80 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2716	June 30	A. C. Burnham.....	Salary, June, 1898.....	\$90 00
2717	"	Maude W. Straight.....	"	75 00
2718	"	C. F. Hottes.....	"	70 00
2719	"	W. C. Brenke.....	"	75 00
2720	"	C. T. Wilder.....	"	70 00
2721	"	Jessie Y. Fox.....	"	30 00
2722	"	J. H. McKee.....	"	50 00
2723	"	G. D. Hubbard.....	"	50 00
2724	"	H. A. Webber.....	"	50 00
2725	"	C. V. Seastone.....	"	50 00
2726	"	E. B. Ketchum.....	"	50 00
2727	"	H. V. Carpenter.....	"	50 00
2728	"	J. L. Sammis.....	"	50 00
2729	"	M. B. Hammond.....	"	50 00
2730	"	Anna Fossler.....	"	50 00
2731	"	C. B. Clark.....	"	85 00
2732	"	A. R. Curtiss.....	"	85 00
2733	"	J. H. Wilson.....	"	60 00
2734	"	Henry Jones.....	"	60 00
2735	"	D. H. Carnahan.....	"	30 00
2736	"	A. C. Hobart.....	"	30 00
2737	"	F. W. Schacht.....	"	30 00
2738	"	A. E. Paul.....	"	30 00
2739	"	Don Sweeney.....	"	30 00
2740	"	A. S. Williamson.....	"	10 00
2741	"	E. G. Howe.....	"	150 00
2742	"	Lillie A. Clendenin.....	"	65 00
2743	"	R. S. Douglas.....	"	75 00
2744	"	C. B. Randolph.....	"	70 00
2745	"	C. W. Alvord.....	"	70 00
2746	"	W. L. Pillsbury.....	"	162 50
2747	"	S. W. Shattuck.....	Salary, 3 months, to June 30, 1898.....	100 00
2748	"	D. McIntosh.....	Salary, June, 1898.....	75 00
2749	"	C. V. Millar.....	"	75 00
2750	"	R. W. Stark.....	"	50 00
2751	"	Geo. W. Graham.....	"	100 00
2752	"	Lillie Heath.....	"	75 00
2753	"	Sue W. Ford.....	"	55 00
2754	"	L. A. Boice.....	"	55 00
2755	"	Jennie M. Laffin.....	"	45 00
2756	"	Georgia E. Hopper.....	"	30 00
2757	"	Adelaide M. Chase.....	"	25 00
2758	"	Mary T. Pierce.....	"	25 00
2759	"	W. O. Waters.....	"	20 00
2760	"	F. J. Foote.....	"	75 00
2761	"	Joe Mo. row.....	"	75 00
2762	"	E. W. Justus.....	"	50 00
2763	"	W. H. Zimmerman.....	"	60 00
2764	"	M. T. Lindsey.....	"	40 00
2765	"	J. H. Allen.....	"	40 00
2766	"	R. Uttenweiler.....	"	60 00
2767	"	Fred Atkinson.....	"	35 00
2768	"	Chas. B. Ewalt.....	"	25 00
2769	"	Henry J. East.....	"	40 00
2770	"	Pearl Adams.....	"	40 00
2771	"	W. R. Hoffman.....	"	37 00
2772	"	L. G. Lathrop.....	"	32 00
2773	"	J. J. Johnson.....	"	32 00
2774	"	E. A. Nelson.....	"	32 00
2775	"	Elbert E. Pound.....	"	32 00
2776	"	A. S. Golden.....	"	32 00
2777	"	Allen McGlaughlin.....	"	32 00
2778	"	Philip Schwelm.....	"	27 00
2779	"	Lucy L. Flower.....	Expenses.....	30 00
2780	"	L. P. Breckenridge.....	"	15 60
2781	"	J. T. Wolcott.....	Services.....	70 00
2782	"	Westinghouse Elec. & Mfg. Co.....	Generator.....	105 00
2783	"	J. Manz & Co.....	View.....	1 93
2784	"	Engineering News Pub. Co.....	Advertisement.....	6 88
2785	"	West Publishing Co.....	Book.....	6 00
2786	"	Callaghan & Co.....	"	4 00
2787	"	Edward Thompson Co.....	"	3 00
2788	"	The Florence Co.....	"	2 40
2789	"	F. F. Frederick.....	Expenses.....	9 95
2790	"	Library Bureau.....	Account book and slips.....	7 00
2791	"	J. C. Sedgwick.....	Payment on contract.....	934 60

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2792	June 30	D. Appleton & Co.....	Books	\$12 65
2793	"	Garden City Sand Co.....	Quartz	6 27
2794	"	Bickford Drill & Tool Co.....	Attachment	20 00
2795	"	Keuffel & Esser Co.....	Measuring tape, etc.....	10 02
2796	"	J. D. Green.....	Labor and material	51 67
2797	"	Chas. A. Schieren & Co.....	Extracting oil from belting.....	8 87
2798	"	A. C. McClurg & Co.....	Envelopes, etc.....	16 93
2799	"	The Lunkenheimer Co.....	Fittings	6 69
2800	"	Robinson & Burr.....	"	52 46

STATE LABORATORY OF NATURAL HISTORY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 15	S. A. Forbes.....	Expenses.....	\$34 34
2	"	Clauser Bros.....	Photographs.....	10 00
3	"	O. D. Havard.....	Labor.....	9 50
4	"	W. C. Brenke.....	Work.....	7 00
5	"	Ed Gill.....	Coal.....	4 00
6	"	Ginn & Co.....	Subscriptions.....	9 00
7	"	H. W. Rokker.....	Printing and binding.....	64 59
8	"	E. H. Sargent & Co.....	Corks.....	2 75
9	"	Bausch & Lomb Opt'l Co.....	Boxes.....	1 69
10	"	Charles A. Hart.....	Expenses.....	2 95
11	"	E. V. Bronson.....	Work.....	10 13
12	"	<i>The Gazette</i>	Printing circulars, etc.....	9 75
13	"	National R'y Pub. Co.....	Railway Guide, 1897.....	5 00
14	"	H. C. Forbes.....	Petty expenses.....	2 72
15	"	Goes Lithographing Co.....	Printing warrant book.....	8 33
16	"	Library Bureau.....	Gummed labels.....	2 00
17	"	W. H. Allen.....	Paints, oils, etc.....	7 95
18	"	Miles Newberry.....	Labor.....	1 50
19	"	D. S. Howard.....	Repairs and labor.....	6 60
20	"	Mat Farman.....	Labor.....	2 25
21	"	Starr & Cogswell.....	Fittings, etc.....	5 77
22	"	Charles T. Wilder.....	Blue prints.....	9 30
23	July 31	Frank Smith.....	Salary, July, 1897.....	100 00
24	"	Charles A. Kofoid.....	".....	108 33
25	"	H. C. Forbes.....	".....	91 66
26	"	Charles A. Hart.....	".....	75 00
27	"	Mary J. Snyder.....	".....	75 00
28	"	C. C. Adams.....	".....	50 00
29	"	Harlen Scott.....	".....	15 00
30	"	Frederic W. Schacht.....	".....	60 00
31	"	Miles Newberry.....	".....	50 00
32	"	Y. Zmrhal.....	".....	30 00
33	"	Lydia M. Hart.....	Drawings.....	12 60
34	"	Marjorie D. Forbes.....	Work in library.....	20 00
35	"	Bausch & Lomb Opt'l Co.....	Vials, circles, etc.....	13 53
36	"	C. B. Holzgrafe.....	Refrigerator, etc.....	17 30
37	"	Richards & Co.....	Tubes.....	3 06
38	"	C. H. Besly & Co.....	Copper letters, etc.....	1 50
39	"	Macmillan & Co.....	Subscription.....	6 00
40	Aug. 14	Franklin Eng. and Electro. Co.....	Zinc cuts.....	25 57
41	"	Pantagraph Pr'ing and Sta. Co.....	Paper boxes.....	7 50
42	"	Montgomery Ward & Co.....	Curtains.....	13 00
43	"	A. R. Curtiss.....	Bicycle.....	26 15
44	"	S. A. Forbes.....	Expenses.....	25 00
45	"	Paul Klineksieck.....	Publications.....	5 25
46	"	S. W. Shattuck, business mgr.....	Sundry items.....	38 80
47	"	J. W. Critchley.....	Pins.....	6 97
48	"	Pantagraph Pr'ing and Sta. Co.....	Gummed paper.....	1 95
49	"	E. H. Sargent & Co.....	Corks and vials.....	14 00
50	"	D. Appleton & Co.....	Book.....	1 35
51	Aug. 24	George F. Lasher.....	Subscription, 1897.....	2 00
52	"	American Entom. Society.....	Subscription.....	4 00
53	"	J. M. Schilling.....	Groceries.....	11 35
54	"	Charles Foster.....	Lettering.....	6 00
55	"	<i>The Gazette</i>	Mounting board.....	1 80
56	"	George W. Parker & Son.....	Bottle racks, etc.....	20 47

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
57	Aug. 31	S. A. Forbes.....	Salary, 3 months, to date.....	\$62 50
58	"	H. C. Forbes.....	Salary, August, 1897.....	91 67
59	"	Charles A. Hart.....	"	75 00
60	"	Mary J. Snyder.....	"	75 00
61	"	C. A. Kofoid.....	"	108 33
62	"	Frank Smith.....	"	100 00
63	"	C. C. Adams.....	"	50 00
64	"	F. W. Schacht.....	"	60 00
65	"	Y. Zmrhal.....	" and expenses...	53 46
66	"	Miles Newberry.....	"	50 00
67	"	Harlen Scott.....	"	15 00
68	"	Marjorie D. Forbes.....	Work in library.....	9 70
69	"	E. V. Bronson.....	Labor.....	8 25
70	Sept. 15	R. Freidlander & Son.....	Books.....	105 60
71	"	C. A. Kofoid.....	Expenses.....	25 00
72	"	S. W. Shattuck, business mgr.	Miscellaneous items.....	40 59
73	"	<i>Champaign County Herald</i>	Printing.....	13 60
74	"	Keene & DeLang.....	Copy book.....	2 50
75	"	A. C. McClurg & Co.....	Books.....	5 01
76	"	Bausch & Lomb Opt'l Co.....	Forceps, etc.....	10 41
77	"	Heliotype Printing Co.....	Copies of plate.....	41 25
78	"	J. W. Critchley.....	Insect pins.....	6 88
79	"	J. C. Winship Co.....	Printing bulletins.....	133 80
80	"	Lydia M. Hart.....	Drawings.....	39 45
81	"	H. C. Forbes.....	Petty expenses.....	6 68
82	Sept. 30	H. C. Forbes.....	Salary, September, 1897.....	91 67
83	"	C. A. Kofoid.....	"	108 33
84	"	C. A. Hart.....	"	83 33
85	"	Mary J. Snyder.....	"	75 00
86	"	C. C. Adams.....	"	50 00
87	"	Harlen Scott.....	"	15 00
88	"	R. W. Braucher.....	Work.....	33 00
89	"	D. S. Howard.....	Row boat.....	23 27
90	"	Yaroslav Zmrhal.....	Salary and expenses.....	27 78
91	"	B. Zelle.....	Linoleum.....	2 67
92	"	Miles Newberry.....	Salary, September, 1897.....	50 00
93	"	Mrs. Miles Newberry.....	Work.....	2 50
94	"	H. G. Bruning.....	Lumber.....	7 53
95	"	E. W. Wheeler.....	Guide book.....	1 00
96	"	W. H. Meyer.....	Meats.....	2 00
97	"	J. M. Schilling.....	Supplies.....	12 40
98	"	Macmillan Co.....	Book.....	3 10
99	"	Frank Smith.....	Expenses.....	6 06
100	"	Fred Atkinson.....	Labor.....	3 00
101	Oct. 15	D. H. Lloyd & Son.....	Letter files, etc.....	8 45
102	"	E. F. Hartman.....	Letter heads.....	5 00
103	"	Open Court Pub Co.....	Publications.....	1 60
104	"	Microscopical Publishing Co.....	Subscription.....	2 00
105	"	Central Union Telephone Co.....	Services to January 1, 1898.....	5 00
106	"	R. S. Wilber.....	Drayage.....	2 47
107	"	S. A. Forbes.....	Expenses.....	25 10
108	"	Starr & Cogswell.....	Labor and materials.....	11 78
109	"	Western Electric Co.....	Bunsen jars.....	3 98
110	"	Maltby & Wallace Co.....	Work on gear patterns, etc.....	9 96
111	"	Brown & Sharpe Mfg Co.....	Bevel gears.....	6 69
112	"	Mechanical Engineering Shops.....	Labor and material on centrifugal.....	100 78
113	"	Montgomery Ward & Co.....	Binding books.....	67 15
114	Oct. 30	C. A. Kofoid.....	Salary, October, 1897.....	108 33
115	"	H. C. Forbes.....	"	91 66
116	"	Mary J. Snyder.....	"	75 00
117	"	C. A. Hart.....	"	83 33
118	"	Lydia M. Hart.....	to Sept. 30, 1897.....	12 50
119	"	Miles Newberry.....	Oct., 1897.....	25 00
120	"	Harlen Scott.....	"	15 00
121	"	R. W. Braucher.....	"	27 00
122	"	<i>The Gazette</i>	Printing circulars.....	1 50
123	"	Houghton, Mifflin & Co.....	Books.....	50 00
124	"	S. Raymond Roberts.....	Manual of Conchology.....	6 00
125	"	Watson Faulkner.....	Alcohol.....	2 12
126	"	August Goese.....	Apparatus.....	2 50
127	"	Bausch & Lomb Optical Co.....	Scissors, pipettes, etc.....	5 99
128	"	Wm. Wesley & Son.....	Books.....	6 70
129	"	H. E. Summers.....	Preparing exhibit, etc.....	46 00
130	"	James Ingis.....	Photographs.....	35 80
131	"	S. A. Forbes.....	Expenses.....	33 00
132	"	H. C. Forbes.....	Petty expenses.....	5 80
133	"	W. D. Burton.....	Labor.....	1 25
134	"	Chas. T. Wilder.....	Negative and print.....	1 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
135	Oct. 30	S. W. Shattuck, Business M'gr	Sundry items	\$15 50
136	"	Geo. W. Parker & Son	Remodeling case	9 50
137	"	Mittendorf & Kiler	Picture frames, etc	32 33
138	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	46 82
139	"	S. A. Forbes	Salary, 3 months, to date	62 50
140	"	H. C. Forbes	" Nov., 1897	91 66
141	"	C. A. Hart	"	83 33
142	"	Mary J. Snyder	"	75 00
143	"	Lydia M. Hart	" Oct., 1897	25 00
144	"	Harlan Scott	" Nov., 1897	15 00
145	"	C. A. Kofoid	"	108 33
146	"	Miles Newberry	" and part of Oct	29 00
147	"	Clauser Bros	Photographs	3 50
148	"	W. H. Allen	Bottles, oils, chemicals, etc	35 00
149	"	G. W. Geary	Copper tank, etc	2 45
150	"	Geo. E. McHose	Labor	2 00
151	"	Montgomery Ward & Co	Book binding	86 49
152	"	W. H. Rokker	Printing and binding	58 75
153	"	W. W. Lindley	Stamped envelopes	10 90
154	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	13 10
155	"	Lydia M. Hart	Drawings	25 00
156	"	Western Bank Note Engrav. Co	Parchment paper	2 00
157	"	H. C. Forbes	Expenses	2 70
158	"	Keen & DeLang	Blank book	6 00
159	"	Bausch & Lomb Optical Co	Brass discs, etc	16 65
160	"	W. W. Lindley	Stamps	8 00
161	"	Henry M. Skinner	Subscription	1 00
162	"	J. M. Dent & Co	"	3 52
163	"	Ginn & Co	"	3 00
164	"	Library Bureau	Labels and cards	6 30
165	"	R. S. Wilber	Drayage	8 89
166	"	August Geise	Filter	31 50
167	"	Esty Wire Works Co	Wire cloth	6 00
168	"	Univ. of Illinois repair shop	Labor on centrifugal	17 44
169	"	S. W. Shattuck, business m'gr	Sundry items	17 43
170	"	H. C. Forbes	Salary for Dec., 1897	91 66
171	"	C. A. Kofoid	"	108 33
172	"	Chas. A. Hart	"	83 33
173	"	C. A. Adams	"	25 00
174	"	Mary J. Snyder	"	75 00
175	"	Miles Newberry	"	25 00
176	"	Harlan Scott	"	15 00
	1898.			
177	Jan. 15	W. W. Lindley	Postag- stamps	36 40
178	"	D. H. Lloyde & Son	Ink, pens, etc	1 40
179	"	W. T. Falconer Mfg Co	Blocks for mounting insects	33 00
180	"	Montgomery Ward & Co	Registers	11 25
181	"	Geo. W. Parker & Son	Bottle racks	13 20
182	"	Western Union Telegraph Co	Telegrams for Dec., 1897	4 27
183	"	Chas. W. Smiley	Subscription	1 00
184	"	Wm. Wesley & Son	Foreign publications	4 37
185	"	E. Freidlander & Son	"	47 58
186	"	J. C. Winship Co	Printing bulletins	215 15
187	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	15 60
188	"	V. W. Shuck	Tin forms	2 00
189	"	Alfred L. Butz	Cork slabs	2 52
190	"	Cambridge Botanic'l Supply Co	Labels	1 50
191	"	L. S. Poster	Copy of the Auk	3 00
192	"	C. A. Hart	Expenses	19 25
193	Jan. 31	C. A. Kofoid	Salary for Jan., 1898	108 33
194	"	H. C. Forbes	"	91 66
195	"	C. A. Hart	"	83 33
196	"	Mary J. Snyder	"	75 00
197	"	C. C. Adams	"	25 00
198	"	Miles Newberry	"	25 00
199	"	Lydia M. Hart	"	5 48
200	"	Harlan Scott	"	25 00
201	Feb. 14	Phillips Bros	Labor	34 80
202	"	Lydia M. Hart	Drawings	27 30
203	"	Bausch & Lomb Optical Co	Subscription	1 00
204	"	Chicago Legal News Co	Revised statutes of Illinois	4 00
205	"	Lea Bros. & Co	Subscription for 1898	4 00
206	"	Mittendorf & Kiler	Cutting frames	1 25
207	"	<i>Champaign County Herald</i>	Cards and paper	8 85
208	"	F. K. Robeson & Bro	Rugs, matting, etc	36 40
209	"	I. M. Henninger	Coal	4 60

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
210	Feb. 25	Geo. W. Parker & Son.....	Walnut box.....	\$1 25
211	"	W. W. Lindley	Envelopes.....	11 08
212	"	H. C. Forbes.....	Expenses.....	4 16
213	"	Walker & Mulliken.....	Cleaning furniture.....	1 25
214	"	S. A. Forbes.....	Salary, 3 months to date	62 50
215	"	C. A. Kofoid.....	for Feb., 1898.....	108 33
216	"	H. C. Forbes.....	"	91 66
217	"	Chas. A. Hart.....	"	83 33
218	"	Mary J. Snyder.....	"	75 00
219	"	C. C. Adams.....	"	25 00
220	"	Miles Newberry.....	"	25 00
221	"	Harlen Scott.....	"	20 00
222	"	R. Friedlander & Son.....	Publications.....	67 13
223	"	Karl J. Trubner.....	Books.....	10 00
224	"	Wm. Wesley & Son.....	Proceedings Zoological Society	3 00
225	"	K. F. Koehler.....	Periodicals.....	3 00
226	"	Bernard Quaritch.....	Publications.....	12 00
227	"	S. W. Shattuck, business m'gr	Expressage, etc.....	13 75
228	March 15	The Kny-Scheerer Co.....	Filters.....	2 20
229	"	Phillips Bros.....	Printing.....	9 75
230	"	S. A. Forbes.....	Expenses.....	93 20
231	"	Western Union Telegraph Co.	Telegrams.....	7 19
232	"	E. H. Sargent.....	Oxide.....	1 15
233	"	Bausch & Lomb Optical Co.....	Eye shades, etc.....	2 04
234	"	G. W. Parker & Son.....	Catalogue case, etc.....	47 97
235	"	W. W. Lindley, P. M.....	Envelopes and stamps	29 90
236	"	Ginn & Co.....	Journal of Morphology.....	9 00
237	"	The Entom Society of Ontario	Canadian Entomologist.....	1 00
238	"	The Cyclopaedia Pub. Co.....	Cyclopaedia of Am. Biographies.	7 00
239	"	Lydia M. Hart.....	Drawing.....	28 00
240	"	Lawton & Co.....	Barlock ribbon.....	1 50
241	"	H. C. Forbes.....	Atomizers, book, etc.....	2 08
242	March 31	C. A. Kofoid.....	Salary, March, 1898.....	108 33
243	"	Chas. A. Hart.....	"	83 33
244	"	H. C. Forbes.....	"	91 66
245	"	Mary J. Snyder.....	"	75 00
246	"	C. C. Adams.....	"	25 00
247	"	Harlen Scott.....	"	20 00
248	"	Miles Newberry.....	"	25 00
249	April 15	Ginn & Co.....	Book.....	4 00
250	"	Bernard Quaritch.....	Publications.....	9 80
251	"	William Wesley & Son.....	"	26 06
252	"	M. l'Administrateur des Arch-	"	6 40
253	"	ives de Parasitologie.....	"	51 70
254	"	H. W. Rokker.....	Printing.....	8 00
255	"	<i>The Gazette</i>	and binding.....	2 85
256	"	E. H. Sargent & Co.....	Chemicals.....	18 98
257	"	<i>Champaign County Herald</i>	Manilla paper and envelopes	13 00
258	"	W. W. Lindley.....	Stamps.....	1 10
259	"	Blomgren Bros. & Co.....	Reproductions of diagrams, etc	1 60
260	"	Eugene Dietzgen & Co.....	Paper.....	15 05
261	"	Henry Trevett.....	Welsbach lamps, tubing, etc	9 41
262	"	R. S. Wilber.....	Hauling, etc.....	4 50
263	"	Columbia Typewriter Mfg Co.	Ribbons.....	42 57
264	"	J. M. Chase.....	Repairing.....	2 25
265	"	Knowlton & Bennett.....	Glass pins.....	2 05
266	"	C. A. Hart.....	Dip-nets.....	11 50
267	"	Walker & Mulliken.....	Chairs.....	1 47
268	April 30	Western Union Telegraph Co.	Telegrams.....	108 33
269	"	C. A. Kofoid.....	Salary, April, 1898.....	91 66
270	"	H. C. Forbes.....	"	83 33
271	"	Charles A. Hart.....	"	75 00
272	"	Mary J. Snyder.....	"	62 50
273	"	Charles C. Adams.....	"	105 00
274	"	E. B. Forbes.....	Salary, half March and April, 1898.	40 69
275	"	Lydia M. Hart.....	Labor and material.....	20 00
276	"	Harlen Scott.....	Salary, April, 1898.....	25 00
277	"	Miles Newberry.....	"	6 95
278	"	E. H. Sargent & Co.....	Vials.....	3 00
279	"	R. W. Mills.....	Labor.....	5 61
280	"	H. D. Oldham.....	Putty.....	11 75
281	"	Central Union Telephone Co.	Rental and services.....	6 47
282	"	E. B. Forbes.....	Laboratory expenses.....	15 75
283	"	S. W. Shattuck, business mgr.	Expenses, etc.....	1 94
284	May 31	H. C. Forbes.....	Petty expenses.....	37 50
		C. C. Adams.....	Salary, May, 1898.....	

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
285	May 31	Lydia M. Hort.....	Salary, May, 1898.....	\$36 40
286	"	Harlen Scott.....	".....	20 00
287	"	Mary J. Snyder.....	".....	75 00
288	"	Chas. A. Hart.....	".....	83 33
289	"	H. C. Forbes.....	".....	91 66
290	"	S. A. Forbes.....	Salary, quarter ending May 31.....	62 50
291	"	H. E. Summers.....	Services.....	75 00
292	"	W. W. Lindley.....	Postage.....	19 90
293	"	H. C. Forbes.....	Petty expenses.....	3 60
294	"	The Prescott Chemical Co.....	Carbolum.....	2 50
295	"	T. H. Trevett.....	Hardware.....	2 85
296	"	Keen & De Lang.....	Copy book.....	4 00
297	"	Champaign Cycle Co.....	Tire.....	4 00
298	"	S. E. Cassino.....	Book.....	2 00
299	"	Bausch & Lomb Optical Co.....	Bulbs and powder.....	1 02
300	"	J. W. Critchley.....	Pins.....	3 48
301	"	Miles Newberry.....	Salary, May, 1898.....	25 00
302	"	C. A. Kofoid.....	".....	108 33
303	"	Central Rubber Supply Co.....	Hose, coupling and clamps.....	5 85
304	"	Chas. A. Hart.....	Expenses.....	6 51
305	"	J. D. Breene.....	Funnel.....	2 00
306	"	E. B. Forbes.....	Expenses.....	18 61
307	"	E. H. Sargent & Co.....	Rubber caps.....	2 56
308	"	E. B. Forbes.....	Salary, May, 1898.....	64 20
309	"	E. O. Vaile.....	Subscription.....	1 50
310	"	<i>The Nautilus</i>	".....	1 00
311	"	H. E. Hooper.....	Books.....	19 00
312	"	Chas. F. Hottes.....	".....	20 16
313	"	Ward Bros.....	Bookbinding.....	54 12
314	"	Dulan & Co.....	Papers (Nat. Hist.).....	20 51
315	"	William Wesley & Son.....	Books.....	14 34
316	"	S. A. Forbes.....	Expenses.....	253 41
317	"	H. E. Parker.....	Bottle racks, etc.....	13 70
318	"	William Wood & Co.....	Publication.....	5 00
319	"	A. C. McClurg & Co.....	Books.....	2 38
320	"	Daniel Appleton & Co.....	".....	1 20
321	"	<i>Science</i>	Subscription.....	5 00
322	"	<i>Popular Science News</i>	".....	2 00
323	"	Bausch & Lomb Optical Co.....	Laboratory furnishings.....	6 34
324	"	Robinson & Burr.....	Brass rings.....	3 00
325	"	Henry J. Green.....	Instruments.....	28 27
326	"	H. Swannell.....	Glue, etc.....	1 05
327	"	T. H. Trevett.....	Rubber tubing.....	1 80
328	"	J. W. Critchley.....	Pins.....	13 50
329	"	Hubbard & Sons.....	Labor.....	1 15
330	"	Franklin Educational Co.....	Ribbon, etc.....	1 00
331	"	Whitall, Tatum & Co.....	Anatomical jars.....	23 75
332	"	D. H. Lloyd & Son.....	Stationery, etc.....	7 10
333	"	J. W. Critchley.....	Pins and postage.....	16 98
334	"	<i>The Gazette</i>	Printing, etc.....	25 15
335	"	Alfred L. Butz.....	Corks.....	3 78
336	"	S. W. Shattuck, Business Mgr.....	Expressage, etc.....	26 92
337	"	Friedrich Cohen.....	Books.....	5 28
338	"	R. Friedlander & Son.....	Publications.....	121 46
339	"	William Wesley & Son.....	Books.....	15 40
340	"	John Wheldon & Co.....	".....	22 31
341	"	T. H. Trevett.....	Thermometer case.....	2 50
342	"	S. A. Forbes.....	Expenses.....	22 34
343	"	W. W. Lindley.....	Stamps.....	12 90
344	"	Corning & Co.....	Alcohol.....	16 29
345	"	Chemical Dept U. of I.....	and chemicals.....	16 15
346	"	H. C. Forbes.....	Expenses.....	1 90
347	"	Ed. F. Hartman.....	Letter heads.....	7 00
348	"	Mittendorf & Kiler.....	Chairs and door mats.....	2 80
349	"	H. E. Parker.....	Labor.....	2 10
350	"	National Railway Pub. Co.....	Railway guide.....	5 00
351	"	J. M. Fisher.....	Labor.....	1 87
352	"	E. O. Vaile.....	Publication.....	1 00
353	"	<i>The Entomological News</i>	Subscription.....	1 00
354	"	J. H. Studer.....	Books.....	17 80
355	"	S. Raymond Roberts.....	".....	6 00
356	"	Gustav E. Stechert.....	Foreign literature.....	129 12
357	June 30	H. C. Forbes.....	Salary, June, 1898.....	91 66
358	"	C. A. Kofoid.....	".....	108 33
359	"	E. B. Forbes.....	".....	70 00
360	"	H. E. Summers.....	".....	75 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
361	June 30	C. C. Adams	Salary, June, 1898.....	\$50 00
362	"	C. A. Hart	"	83 33
363	"	Mary J. Snyder	"	75 00
364	"	Lydia M. Hart	"	41 65
365	"	Miles Newberry.....	Part salary for June, 1898	25 00
366	"	Harlen Scott.....	Salary, June, 1898.....	20 00
367	"	H. E. Parker.....	Repairing insectory	13 44
368	"	Hubbard & Sons	Copper tank	9 75
369	"	Cunningham Bros	Books	42 19
370	"	H. J. Green	Merchandise	2 00
371	"	Central Rubber Supply Co.....	"	7 00
372	"	B. F. Gump	Bolting cloth.....	11 94
373	"	Geo. B. Holzgrafe	Hardware	9 93
374	"	Kny-Scheerer Co.....	Chemicals	5 00
375	"	Starr & Coggswell Co	Labor and materials.....	8 86

AGRICULTURAL EXPERIMENT STATION WARRANTS.

No.	Date.	To whom.	For what.	Amount
1	July 31	T. J. Burrill	Salary for July, 1897.....	\$50 00
2	"	W. L. Pillsbury	"	25 00
3	"	E. Davenport.....	"	91 66
4	"	D. McIntosh.....	"	25 00
5	"	P. G. Holden.....	"	50 00
6	"	G. P. Clinton	"	83 33
7	"	C. G. Hopkins	"	125 00
8	"	J. C. Blair	"	41 66
9	"	W. J. Fraser.....	"	33 33
10	"	Kate McIntyre	"	50 00
11	"	S. W. Shattuck	"	16 66
12	"	T. J. Mairs.....	"	33 33
13	"	Hubbard & Sons.....	Hardware	67 35
14	"	S. M. Marble.....	Rock salt.....	1 75
15	"	E. Henry	Soda	1 50
16	"	Creamery Package Mfg. Co.....	Jars, etc.....	17 50
17	"	Knowlton & Bennett.....	Leads, oils, etc.....	6 65
18	"	Walker & Mulliken.....	Chairs, tables.....	3 30
19	"	T. H. Trevett.....	Hardware	8 63
20	"	E. Henry	Brooms, etc.....	4 65
21	"	J. F. Miller	Whips, etc.....	5 80
22	"	Campbell & Spaulding	Horse-shoeing, etc.....	32 20
23	"	H. Swannell.....	Drugs, etc.....	20 93
24	"	C. H. Baddeley.....	Sauce dishes.....	5 50
25	"	V. W. Shuck.....	Galvanized iron, etc.....	4 30
26	"	Charles A. Besore.....	Lumber.....	36 97
27	"	Wm. Price.....	Paints, oils, etc.....	7 60
28	"	H. McFadden & Bros.....	Straw, hay, etc.....	10 60
29	"	<i>The Gazette</i>	Printing, etc.....	20 35
30	"	F. K. Robeson & Bros.....	Matting	3 00
31	"	Ferguson & Craig.....	Clock	1 00
32	"	C. J. Sabin	Bolts, blocks, etc.....	5 25
33	"	Henry Trevett.....	Hardware	15 20
34	"	Wm. Miebach & Co.....	Apparatus.....	4 90
35	"	Bevis & Co.....	Lumber.....	2 35
36	"	Miller Harness Co.....	Curry combs, brushes, etc.....	8 50
37	"	Ed Lasell.....	Berry boxes.....	2 75
38	"	Thos. Franks.....	Plants.....	13 15
39	"	H. N. Woodward.....	Services.....	10 00
40	"	Goes Lithographing Co.....	Printing warrant book	8 34
41	August 20	P. G. Holden.....	Expense.....	3 20
42	"	Samuel Barthey	Plowing and planting corn.....	5 50
43	"	Watson Faulkner.....	Sponges	1 50
44	"	Hubbard & Sons.....	Hardware	25 17
45	"	A. C. McClurg & Co.....	Adjusting typewriter.....	4 69
46	"	John F. Miller.....	Harness, etc.....	20 55
47	"	Frison Bros.....	Repairing whip socket.....	1 00
48	"	Illinois Printing Co.....	Printing	6 50
49	"	Henry Trevett.....	Locks, etc.....	3 97
50	"	V. W. Shuck.....	Galvanized iron, etc.....	4 55

Warrants—Continued.

No	Date.	To whom.	For what.	Amount.
51	1897. August 20	Twin City Ice & Cold St'ge Co.	Ice	\$14 40
52	"	C. J. Sabin	Scraper, seeds, etc.	15 20
53	"	Knowlton & Bennett	Records and journals	13 55
54	"	Robinson & Burr	Pulley	1 20
55	"	Charles A. Besore	Lumber, coal	9 63
56	"	Abe Selicovitz	Old pipe	1 25
57	"	J. G. Mosier	Expenses	9 40
58	"	S. W. Shattuck, Business Mgr.	Sundry items	16 91
59	"	"	Pay rolls for July, 1897, etc.	475 70
60	August 31	T. J. Burrill	Salary for August, 1897	50 00
61	"	W. L. Pillsbury	"	25 00
62	"	E. Davenport	"	91 66
63	"	D. McIntosh	"	25 00
64	"	P. G. Holden	"	50 00
65	"	G. P. Clinton	"	83 33
66	"	C. G. Hopkins	"	125 00
67	"	J. C. Blair	"	41 66
68	"	W. J. Fraser	"	33 33
69	"	Kate McIntyre	"	50 00
70	"	S. W. Shattuck	"	16 66
71	"	T. I. Mairs	"	33 33
72	Sept. 15	A. C. McClurg & Co.	Shuttle	3 00
73	"	P. G. Holden	Expenses	11 68
74	"	Eimer & Amend	Flasks, etc.	9 95
75	"	Richards & Co.	Chemicals, etc.	85 16
76	"	H. N. Woodward	Services	44 57
77	"	E. A. Riehl	Cutting samples,	3 20
78	"	Montgomery Ward & Co.	Cider mill, etc.	11 46
79	"	George F. Lasher	Postal guide	2 50
80	"	F. K. Robeson & Bro.	Linoleum, etc.	37 83
81	"	Hubbard & Sons	Hardware, etc.	12 20
82	"	Miller & Leming	Pine lumber	1 60
83	"	H. Swannell	Paints, oils, etc.	14 25
84	"	Charles A. Besore	Lumber and coal	19 35
85	"	S. W. Shattuck, Business Mgr.	Pay rolls, etc., August, 1897	404 99
86	Sept. 30	T. J. Burrill	Salary for September, 1897	50 00
87	"	W. L. Pillsbury	"	25 00
88	"	E. Davenport	"	91 67
89	"	D. McIntosh	"	25 00
90	"	P. G. Holden	"	54 17
91	"	J. C. Blair	"	45 84
92	"	W. J. Fraser	"	37 50
93	"	C. G. Hopkins	"	125 00
94	"	G. P. Clinton	"	83 34
95	"	Kate McIntyre	"	55 00
96	"	S. W. Shattuck	"	16 67
97	"	T. I. Mairs	"	41 67
98	"	Henry Trevett	Hardware	13 15
99	"	Campbell & Spalding	Shoeing, etc.	10 40
100	"	E. Davenport	Expenses	4 78
101	"	Ottenheimer & Co.	Overalls	1 00
102	October 15	Vermont Farm Machine Co.	Babcock heater, etc.	12 72
103	"	Twin City Ice & Cold St'ge Co.	Ice	26 20
104	"	A. P. Cunningham & Son.	Supplies	10 65
105	"	De Laval Separator Co.	Rings	1 63
106	"	John F. Miller	Blankets, collars, etc.	6 00
107	"	T. H. Trevett	Galvanized iron, etc.	8 15
108	"	E. Henry	Brooms, buckets, etc.	5 63
109	"	C. A. Besore	Lumber, etc.	12 20
110	"	Gustav E. Stechert	Books	4 93
111	"	Champaign County Herald.	Record books, etc.	6 20
112	"	Robinson & Burr	Brass rings	3 00
113	"	W. W. Walls & Co.	Lumber	1 40
114	"	D. H. Lloyd & Son	Books, pens, etc.	5 69
115	"	Alexander Lumber Co.	Lumber	11 77
116	"	G. C. Willis	Flannel, toweling, etc.	6 29
117	"	Hubbard & Sons	Locks, fittings, etc.	14 65
118	"	George Besore	Oats, bran, etc.	14 91
119	"	Knowlton & Bennett	Paints, oils, etc.	12 40
120	"	Martin Bibbuis	Sand	1 20
121	"	Eimer & Amend	Repairs of polariscope, etc.	51 00
122	"	George A. Garrison	Oats	17 67
123	Oct. 30	T. J. Burrill	Salary for October, 1897	50 00
124	"	W. L. Pillsbury	"	25 00
125	"	E. Davenport	"	91 66
126	"	D. McIntosh	"	25 00

Warrants—Continued.

No.	Date.	To whom paid.	For what.	Amount.
	1897.			
127	Oct. 30	P. G. Holden	Salary for October, 1897..	\$54 16-
128	"	J. C. Blair	"	45 83.
129	"	W. J. Fraser	"	37 50.
130	"	C. G. Hopkins	"	125 00.
131	"	G. P. Clinton	"	83 33.
132	"	Kate McIntyre	"	55 00.
133	"	S. W. Shattuck	"	16 66.
134	"	T. I. Mairs	"	41 66.
135	"	S. W. Shattuck, Business Mgr.	Pay rolls, men, September, 1897, etc.	544 28.
136	Nov. 15	S. E. Ball	Expenses for board of men.....	7 50.
137	"	G. C. Willis	Blankets, etc	17 40.
138	"	Pantagraph Print. and Stat. Co	Letter books, etc	7 25.
139	"	George W. Parker & Son	Wood specimens	2 50.
140	"	William Roysden	Moving safe	25 00.
141	"	Samuel Bartley	Labor, cutting corn, etc	10 00.
142	"	Richards & Co	Condenser tubes	12 00.
143	"	Fuller & Fuller Co	Acids	4 48.
144	"	J. Hamilton & Son	Lumber	11 76.
145	"	Torrey Botanical Club	Subscription	3 00.
146	"	George Besore	Oats and feed	11 00.
147	"	Mittendorf & Kiler	Mattress, etc	28 66.
148	"	C. J. Sabin	Twine, etc	8 73.
149	"	John F. Miller	Buggy, etc	48 50.
150	"	Hubbard & Sons	Wheelbarrow, pipe, etc	16 43.
151	"	A. H. Barber & Co	Jars, brushes, etc	6 73.
152	"	C. A. Besore	Lumber	18 76.
153	"	W. W. Lindley	Postage	20 00.
154	"	S. W. Shattuck, Business Mgr.	Chemicals, light, water, etc	122 97.
155	"	"	Freight, express, etc	81 96.
156	"	"	Pay roll of men, October, 1897	505 12.
157	Nov. 30	T. J. Burrill	Salary for November, 1897	50 00.
158	"	W. L. Pillsbury	"	25 00.
159	"	E. Davenport	"	91 66.
160	"	D. McIntosh	"	25 00.
161	"	P. G. Holden	"	54 16.
162	"	J. C. Blair	"	45 83.
163	"	W. J. Fraser	"	37 50.
164	"	C. G. Hopkins	"	125 00.
165	"	G. P. Clinton	"	83 33.
166	"	Kate McIntyre	"	55 00.
167	"	S. W. Shattuck	"	16 66.
168	Dec. 20	Henry Fisher	Cow	40 00.
169	"	N. B. Morrison	Expenses	17 50.
170	"	Hubbard & Sons	Milk can	1 50.
171	"	Bevis & Co	Lumber	2 50.
172	"	C. & U. Phoenix Telephone Co.	Services to December 15, 1897.....	9 00.
173	"	<i>Champaign County Herald</i>	Printing	44 00.
174	Nov. 30	Gustav E. Stechert	Books	6 50.
175	"	Charles A. Besore	Lumber, etc	35 33.
176	"	S. W. Shattuck, Business Mgr.	Pay rolls, men, November, 1897, etc.	388 25.
177	Dec. 31	T. J. Burrill	Salary for December, 1897	50 00.
178	"	W. L. Pillsbury	"	25 00.
179	"	E. Davenport	"	91 67.
180	"	D. McIntosh	"	25 00.
181	"	P. G. Holden	"	54 17.
182	"	J. C. Blair	"	45 84.
183	"	W. J. Fraser	"	37 50.
184	"	C. G. Hopkins	"	125 00.
185	"	G. P. Clinton	"	83 34.
186	"	Kate McIntyre	"	55 00.
187	"	S. W. Shattuck	"	16 67.
188	"	Isaac S. Raymond	Expenses	5 00.
	1898.			
189	Jan. 7	E. A. Riehl	Expenses	13 98.
190	"	H. B. Gurler	"	13 06.
191	"	W. J. Frazer	"	5 42.
192	"	P. G. Holden	"	63 80.
193	"	E. Davenport	"	2 73.
194	"	C. H. Baddeley	Lamp, etc	1 70.
195	"	C. & U. Phoenix Telephone Co.	Services to March 15, 1898	3 00.
196	"	A. C. McClurg & Co	Ribbons	3 35.
197	"	Henry I. Green	Thermometer	6 00.
198	"	Charles A. Besore	Lumber, etc	45 49.
199	"	S. B. Hedges	Straw and milk	22 29.
200	"	Twin City Ice & Cold Storage Co	Ice	15 00.
201	"	C. E. Stewart	Board	2 40.

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
202	Jan.	7 Hubbard & Sons.....	Hay carrier, etc.....	32 74
203	"	" Kariher Grocery Co.....	Salt, etc.....	1 40
204	"	" William Price Estate.....	Paints, oils, etc.....	16 50
205	"	" Creamery Package Mfg Co.....	Jars, etc.....	42 58
206	"	" Stern Bros.....	Rubber coat.....	5 00
207	"	" Knowlton & Bennett.....	Glass, etc.....	11 20
208	"	" Frison Bros.....	Repairing sled.....	5 00
209	Jan.	15 Kariher Grocery Co.....	Sacks.....	3 25
210	"	" W. W. Lindley.....	Postage.....	10 00
211	"	" S. W. Shattuck, Business Mgr.	Pay rolls, December, 1897, etc.	406 94
212	Jan.	31 T. J. Burrill.....	Salary for January, 1898.	50 00
213	"	" W. L. Pillsbury.....	"	25 00
214	"	" E. Davenport.....	"	95 83
215	"	" D. McIntosh.....	"	25 00
216	"	" P. G. Holden.....	"	54 16
217	"	" J. C. Blair.....	"	45 83
218	"	" C. G. Hopkins.....	"	125 00
219	"	" W. J. Fraser.....	"	37 50
220	"	" G. P. Clinton.....	"	83 33
221	"	" Kate McIntyre.....	"	55 00
222	"	" S. W. Shattuck.....	"	16 66
223	"	" McFadden Bros.....	Bran.....	4 20
224	"	" Swannell Mfg. Co.....	Linseed cake, etc.....	29 50
225	"	" Mittendorf & Kiler.....	Picture frames.....	2 95
226	"	" Bausch & Lomb Optical Co.....	Objective, materials, etc.....	61 73
227	"	" Ft. Wayne Electric Corporat'n	Apparatus.....	4 00
228	"	" Phoenix Nursery Co.....	Nursery stock.....	1 00
229	"	" D. H. Lloyd & Son.....	Detail paper, etc.....	14 75
230	"	" C. H. Baddeley.....	Lantern, gold dust, etc.....	6 75
231	"	" G. C. Willis.....	Toweling, etc.....	12 07
232	"	" Creamery Package Mfg Co.....	Bottles, etc.....	17 93
233	"	" L. K. Howse & Co.....	Baskets.....	4 45
234	"	" Samuel Bartl-y.....	Services.....	25 00
235	"	" Champaign County Herald.....	Printing circulars, etc.....	31 60
236	"	" J. Manz & Co.....	Half tones.....	27 60
237	"	" J. C. Blair.....	Expenses.....	21 83
238	"	" Chicago Produce Co.....	Subscription to January 22, 1899.	1 50
239	"	" Thomas Meehan & Sons.....	to December 31, 1898..	2 00
240	"	" Register Co.....	Book.....	5 00
241	"	" Gustav E. Stechert.....	"	1 65
242	"	" The Gazette.....	Printing vouchers.....	3 50
243	"	" C. A. Hunt.....	Glass.....	4 80
244	"	" Hubbard & Sons.....	Hardware.....	38 20
245	"	" John F. Miller.....	Bridle, etc.....	7 90
246	"	" Champaign Mach. and Sup. Co	Pulley, etc.....	2 61
247	"	" John B. Bennett.....	Cement, sand, plastering, etc.	23 25
248	"	" J. W. Spaulding & Son.....	Rubber boots.....	3 50
249	"	" W. J. Fraser.....	Stove.....	2 00
250	"	" S. W. Shattuck, business mgr.	Sundry items.....	3 88
251	Feb.	28 H. N. Woodward.....	Labor on experiment fields	17 51
252	"	" N. O. Nelson.....	Rebate.....	3 50
253	"	" H. Leiber Co.....	Photographic materials.....	20 24
254	"	" Richards & Co.....	Nessler tubes, etc.....	13 54
255	"	" Montgomery Ward & Co.....	Ducking.....	3 00
256	"	" Holstein Friesian Ass'n of Am.	Set of herd books.....	25 00
257	"	" G. E. Stechert.....	Subscriptions.....	150 55
258	"	" Hubbard & Sons.....	Roofing, linings, etc.....	47 76
259	"	" S. B. Hedges.....	Hay and straw.....	24 32
260	"	" S. W. Shattuck, business mgr.	Pay-rolls, January, 1898, etc.	335 89
261	"	" T. J. Burrill.....	Salary for February, 1898	50 00
262	"	" W. L. Pillsbury.....	"	25 00
263	"	" E. Davenport.....	"	95 83
264	"	" D. McIntosh.....	"	25 00
265	"	" P. G. Holden.....	"	54 17
266	"	" J. C. Blair.....	"	45 83
267	"	" C. G. Hopkins.....	"	125 00
268	"	" W. J. Fraser.....	"	37 50
269	"	" G. P. Clinton.....	"	83 33
270	"	" Kate McIntyre.....	"	55 00
271	"	" S. W. Shattuck, business mgr.	"	16 67
272	March	15 Gustav E. Stechert.....	Herd registers.....	54 00
273	"	" American Jersey Cattle Club..	Subscription.....	1 10
274	"	" W. W. Lindley.....	Postage stamps.....	20 00
275	"	" Eichberg & Baer.....	Rugs.....	1 00
276	"	" C. H. Baddeley.....	Lamp, chimneys, etc.....	6 20
277	"	" A. E. Wuesteman.....	Clock.....	1 07
278	"	" R. S. Wilber.....	Freight, express, drayage.....	16 53

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898			
279	March 15	Charles A. Besore.....	Lumber	\$93 05
280	"	The Alexander Lumber Co....	"	61 45
281	"	Henry Swannell.....	Kerosene, cotton, etc.....	4 95
282	"	T. H. Trevett.....	Hardware	42 40
283	"	Hubbard & Sons.....	Welsbach lights, etc.....	10 80
284	"	H. Swannell.....	Note books, etc.....	4 05
285	"	E. Henry.....	Salt, soda, soap, etc.....	13 65
286	"	Creamery Package Mfg. Co....	Brushes, pails, etc.....	5 87
287	"	Cunningham Bros.....	Plates, films, hypo, etc.....	10 15
288	"	George Besore.....	Bran, oats, etc.....	151 20
289	"	Edward B. Voorhees.....	Membership, A. A. A. C. and M. S..	10 00
290	"	<i>The Gazette</i>	Labels	1 00
291	"	Henry Heil Chemical Co.....	Tubes, forceps, etc.....	11 11
292	"	Champaign Mach. and Sup. Co.	Centrifuge	45 58
293	"	Robinson & Burr.....	Belting, pulleys, etc.....	26 78
294	"	J. B. Ellis.....	Book	7 18
295	"	Hubbard & Sons.....	Hardware.....	11 69
296	"	Morrill & Morley.....	Pump, etc.....	37 40
297	"	Fuller & Fuller.....	Acid, etc.....	3 94
298	"	G. A. Garrison.....	Oats	76 04
299	"	Knowlton & Bennett.....	Oil, shellac, etc.....	5 25
300	"	Isaac S. Raymond.....	Expenses	4 00
301	"	E. A. Riehl.....	"	14 00
302	"	S. W. Shattuck, business mgr.	Express, freight, etc.....	48 81
303	"	S. W. Shattuck, business mgr.	Pay-roll, men, February, 1898.	349 04
304	March 31	T. J. Burrill.....	Salary, March, 1898.....	50 00
305	"	W. L. Pillsbury.....	"	25 00
306	"	E. Davenport.....	"	95 84
307	"	D. McIntosh.....	"	25 00
308	"	P. G. Holden.....	"	54 17
309	"	J. C. Blair.....	"	45 84
310	"	C. G. Hopkins.....	"	125 00
311	"	W. J. Fraser.....	"	37 50
312	"	G. P. Clinton.....	"	83 34
313	"	Kate McIntyre.....	"	55 00
314	"	S. W. Shattuck.....	"	10 67
315	"	Hack & Anderson.....	Printing, etc.....	707 70
316	April 15	William Price estate.....	Oil, paint, etc.....	15 66
317	"	C. E. Chapman.....	Painting and papering rooms.....	49 00
318	"	Farmers Handy Wagon Co....	Extra parts for wagon.....	26 50
319	"	Hubbard & Sons.....	Hardware.....	37 98
320	"	Frison Bros.....	Wagon parts and repairing	3 75
321	"	Charles Lindley.....	Oats	25 87
322	"	C. & U. Phoenix Telephone Co.	Telephone services.....	3 00
323	"	V. W. Shuck.....	Shears, stone, etc.....	1 90
324	"	Eugene Dietzgen Co.....	Slide rule.....	3 60
325	"	<i>Champaign County Herald</i>	Printing.....	19 50
326	"	E. Davenport.....	Expenses, etc.....	17 86
327	"	P. G. Holden.....	"	18 68
328	"	G. P. Clinton.....	"	4 75
329	"	J. A. Campbell & Co.....	Chop.....	2 32
330	"	J. C. Vaughan.....	Seeds.....	4 20
331	"	H. M. Simpson & Sons.....	Seeds and plants.....	7 85
332	"	A. C. McClurg & Co.....	Multiplication book.....	2 54
333	"	Max Kaehler & Martini.....	Chemicals.....	16 20
334	"	DeLaval Separator Co.....	Separator parts.....	1 40
335	"	<i>The Gazette</i>	Book	2 90
336	"	W. W. Lindley.....	Stamps	10 00
337	"	Urbana Planing Mill.....	Sawing wood.....	1 50
338	"	Manhat'n Dyeing and Cl'g W'ks	Dyeing blankets.....	1 50
339	"	Charles A. Besore.....	Lumber, etc.....	38 67
340	"	Mittendorf & Kiler.....	Chiffonier, etc.....	14 85
341	"	Bausch & Lomb Optical Co....	Thermometer and razor	3 46
342	"	A. S. Nelson & Sons.....	Sacks and seeds.....	2 05
343	"	Walker & Mulliken.....	Chair, curtains, etc.....	13 85
344	"	S. W. Shattuck, business mgr.	Express and freight.....	26 24
345	"	S. W. Shattuck, business mgr.	Pay-roll, men March, 1898.....	472 44
346	April 30	S. W. Shattuck, business mgr.	Bottle racks, etc.....	13 55
347	"	H. C. Porter.....	Grain bags	2 25
348	"	C. H. Baddeley.....	Seeds.....	4 51
349	"	Jos. Kuhn & Son.....	Rubber coat.....	5 00
350	"	Walker & Mulliken.....	Repairing chair.....	1 00
351	"	T. J. Burrill.....	Salary, April, 1898.....	50 00
352	"	W. L. Pillsbury.....	"	25 00
353	"	E. Davenport.....	"	95 83
354	"	D. McIntosh.....	"	25 00
355	"	P. G. Holden.....	"	54 16
356	"	J. C. Blair.....	"	45 83

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
357	April 30	W. J. Fraser.....	Salary, April, 1898.....	\$37 50
358	"	G. P. Clinton.....	" " " ".....	83 33
359	"	Kate McIntyre.....	" " " ".....	55 00
360	May 14	S. W. Shattuck.....	" " " ".....	16 66
361	"	Hammond & Willard.....	Stock.....	13 99
362	"	J. W. Griesemer.....	" " " ".....	1 48
363	"	Hiram Howard.....	Seed.....	1 35
364	"	Silas Wilson Co.....	Stock.....	6 00
365	"	Augustine & Co.....	" " " ".....	5 22
366	"	Phoenix Nursery Co.....	" " " ".....	11 46
367	"	T. V. Munson & Son.....	" " " ".....	5 75
368	"	A. W. Livingston's Sons.....	Seeds.....	1 50
369	"	J. W. Kerr.....	Stock.....	4 44
370	"	J. C. Suffern.....	Corn.....	2 20
371	"	Willett & Gray.....	Seeds.....	3 64
372	"	Johnson & Stokes.....	Stock.....	1 35
373	"	The Storrs & Harrison Co.....	" " " ".....	6 26
374	"	W. A. Watson & Co.....	" " " ".....	3 56
375	"	Ellwanger & Barry.....	" " " ".....	8 61
376	"	Stark Bros. Nurseries & Orch. Co.....	" " " ".....	10 53
377	"	Standard Oil Co.....	Oil.....	6 82
378	"	Eichberg & Baer.....	Rugs.....	1 50
379	"	A. M. Woodward & Co.....	Pear stock.....	3 00
380	"	Iowa Seed Co.....	Corn.....	1 10
381	"	J. B. Burrows.....	Seed.....	9 00
382	"	C. A. Besore.....	Coal.....	4 80
383	"	Meyer & Raapke.....	Seed.....	3 45
384	"	J. C. Vaughan.....	" " " ".....	6 74
385	"	S. B. Hedges.....	Straw and hay.....	18 05
386	"	R. T. Robinson.....	Grinding, etc.....	10 54
387	"	Pattengale Bros.....	Hay.....	4 40
388	"	Philadelphia Book Co.....	Book.....	2 09
389	"	J. F. Miller.....	Harness, etc.....	22 10
390	"	Knowlton & Bennett.....	Sponges, etc.....	12 60
391	"	Wm. Miebach & Co.....	Mitre box, etc.....	10 35
392	"	J. C. Sedgwick.....	Carpenter work.....	10 20
393	"	The Sanders Publishing Co.....	Advertising.....	4 90
394	"	G. R. Petty & Co.....	Finishing desk.....	8 85
395	"	Richards & Co.....	Laboratory supplies.....	229 84
396	"	S. W. Shattuck, Business Mgr.....	Freight, express and drayage.....	21 38
397	May 31	"	Pay roll for April, 1898.....	638 99
398	"	T. J. Burrill.....	Salary, May, 1898.....	50 00
399	"	W. L. Pillsbury.....	" " " ".....	25 00
400	"	E. Davenport.....	" " " ".....	95 83
401	"	D. McIntosh.....	" " " ".....	25 00
402	"	P. G. Holden.....	" " " ".....	54 17
403	"	J. C. Blair.....	" " " ".....	45 83
404	"	W. J. Fraser.....	" " " ".....	37 50
405	"	G. P. Clinton.....	" " " ".....	83 33
406	"	Kate McIntyre.....	" " " ".....	55 00
407	"	S. W. Shattuck.....	" " " ".....	16 67
408	June 15	<i>The Gazette</i>	Printing.....	3 50
409	"	Fuller & Fuller Co.....	Vitriol.....	17 85
410	"	A. D. Barber.....	Expenses.....	4 50
411	"	Isaac S. Raymond.....	" " " ".....	3 25
412	"	N. B. Morrison.....	" " " ".....	17 50
413	"	W. W. Lindley.....	Postage.....	10 00
414	"	Fred'k L. Houghton.....	Book.....	2 00
415	"	Holsteir-Friesian Asso. of Am.....	Publication.....	1 25
416	"	Dr. Giovanni Briosi.....	Parasitic fungi.....	23 70
417	"	J. Manz & Co.....	Diagram.....	1 80
418	"	<i>Champaign County Herald</i>	Printing.....	9 50
419	"	Mathews Bros.....	Hay and bran.....	8 37
420	"	Miller & Leming.....	Shavings.....	1 50
421	"	Chas. Lindley.....	Oats.....	16 50
422	"	R. T. Robinson.....	Oats and grinding.....	21 90
423	"	Estate of J. A. Campbell & Co.....	Hay, etc.....	15 00
424	"	H. McFadden & Bro.....	Bran, etc.....	10 20
425	"	S. Douglas.....	Hay.....	8 42
426	"	Creamery Package Mfg. Co.....	Milk jars.....	7 10
427	"	L. C. Garwood.....	Clock.....	1 00
428	"	The Miller Harness Co.....	Harness.....	13 00
429	"	Robinson & Burr.....	Waste and glasses.....	2 50
430	"	Eugene Dietzgen Co.....	Steel tape.....	4 00
431	"	Victor Koechl & Co.....	Chemicals.....	12 50
432	"	Chas. A. Besore.....	Lumber.....	4 12

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
433	June 15	J. C. Vaughan.....	Seeds.....	\$2 51
434	"	Geo. A. Sweet Nursery Co.....	Plums.....	2 88
435	"	T. Ralph Miner.....	Plum trees.....	1 50
436	"	Green's Nursery Co.....	Nursery stock.....	1 70
437	"	Samuel Bartley.....	Labor, oats, etc.....	3 62
438	"	R. Abernathy.....	Painting signs.....	16 85
439	"	Cunningham Bros.....	Chemicals, etc.....	10 36
440	"	Bausch & Lomb Optical Co.....	Apparatus.....	11 55
441	"	S. W. Shattuck, Business Mgr.....	Freight, drayage, etc.....	11 41
442	"	" " " ".....	Pay rolls for May, 1898.....	658 44
443	"	" " " ".....	Express, etc.....	36 85
444	June 30	T. J. Burrill.....	Salary, June, 1898.....	50 00
445	"	W. L. Pillsbury.....	" " " ".....	25 00
446	"	E. Davenport.....	" " " ".....	95 84
447	"	D. McIntosh.....	" " " ".....	25 00
448	"	P. G. Holden.....	" " " ".....	54 17
449	"	J. C. Blair.....	" " " ".....	45 84
450	"	W. J. Frazer.....	" " " ".....	37 50
451	"	G. P. Clinton.....	" " " ".....	83 34
452	"	C. G. Hopkins.....	" " " ".....	125 00
453	"	Kate McIntyre.....	" " " ".....	55 67
454	"	S. W. Shattuck.....	" " " ".....	16 67
455	"	H. M. Dunlap.....	Making cider, barrels, etc.....	85 20
456	"	F. M. LeRoy.....	Hay and stray.....	77 28
457	"	Thomas Naughton.....	Toning and mounting prints.....	4 42
458	"	Chreamery Package & Mfg. Co.....	Milk jars.....	9 34
459	"	Samuel Bartley.....	Labor.....	8 88
460	"	H. N. Woodward.....	Labor and material.....	50 95
461	"	Ed. Ford.....	Hay.....	3 47
462	"	C. A. Percival.....	Pasturing cattle.....	30 00
463	"	Hubbard & Sons.....	Labor and material.....	51 36
464	"	S. W. Shattuck, Business Mgr.....	Sundry items.....	1 40
465	"	R. S. Wilber.....	Freight and drayage.....	8 22
466	"	H. Swannell.....	Sponges, oil, etc.....	8 20
467	"	Karlier Grocery Co.....	Sacks and lye.....	2 00
468	"	Knowlton & Bennett.....	Paint, etc.....	5 10
469	"	Alexander Lumber Co.....	Lime, lumber, etc.....	23 36
470	"	J. C. Vaughan.....	Seed, etc.....	1 34
471	"	The Gazette.....	Printing, etc.....	2 00
472	"	C. A. Hunt.....	Glass, oil, etc.....	12 40
473	"	E. H. Sargent & Co.....	Peptone.....	1 24
474	"	Charles A. Besore.....	Lumber, etc.....	17 89

SCHOOL OF PHARMACY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 10	J. H. Clough.....	Rent, April, 1897.....	\$300 00
2	"	W. B. Day.....	Salary, May and July, 1897.....	150 00
3	"	Henry Eulert.....	" " " ".....	100 00
4	"	W. B. Day, Actuary.....	Petty expenses.....	36 16
5	"	" " " ".....	Rebates on deposit.....	199 69
6	"	H. Swannell.....	Expenses.....	16 66
7	"	H. H. Rogers.....	" " " ".....	4 75
8	"	Theo C. Loehr.....	" " " ".....	20 10
9	"	Chas. A. Kofoid.....	" " " ".....	8 38
10	"	F. M. Goodman.....	Printing questions.....	4 50
11	"	E. J. Anthony.....	Pamphlets, envelopes, etc.....	68 75
12	"	John McLogan & Co.....	Plumbing.....	1 10
13	"	Turney & Jones Co.....	Coal.....	18 00
14	"	J. C. Craig, Superintendent.....	Water.....	5 25
15	"	Wendell & Co.....	Medals.....	30 00
16	"	S. W. Shattuck, business mgr.....	Telephone charges.....	31 25
17	"	Mandel Bros.....	Ribbons.....	2 55
18	"	H. S. Cooper.....	Calcimining, etc.....	116 00
19	July 31	W. B. Day.....	Salary, July, 1897.....	75 00
20	"	Henry Eulert.....	" " " ".....	50 00
21	"	W. B. Day, Actuary.....	Petty expenses.....	70 92
22	"	J. W. Wilson.....	Cabinet.....	38 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
23	July 1897.	31 W. F. Keener Co	Directory.....	\$5 00
24	"	Goes Lithographing Co.....	Printing warrant book.....	8 34
25	"	Pontiac Eng. & Pub. Co.....	Cuts.....	9 70
26	Oct.	2 A. W. Palmer.....	Expenses.....	10 66
27	"	S. A. Reynolds.....	Legal services.....	30 00
28	"	Alex. H. Revell & Co.....	Curtains.....	5 35
29	"	Mandel Bros.....	Matting, etc.....	27 50
30	"	G. P. Englehart & Co.....	Printing.....	6 00
31	"	Donohue & Henneberry.....	Envelopes and printing.....	279 00
32	"	E. J. Anthony.....	Filter, pump, etc.....	14 25
33	"	Richards & Co.....	Paints, ammonia, etc.....	4 82
34	"	Fuller & Fuller Co.....	Postage stamps.....	29 87
35	"	S. W. Shattuck, Business Mgr.....	Expenses to September 15, 1898.....	185 00
36	"	W. B. Day, Actuary.....	Salary, August and September, 1897.....	81 88
37	"	W. B. Day.....	Salary, August and September, 1897.....	150 00
38	"	Henry Eulert.....	Advertisement.....	100 00
39	Oct.	15 <i>Druggists' Circular</i>	Advertisement.....	33 34
		<i>Deutsch-Amerikanische Apotheker Zeitung</i>	".....	15 00
40	"	Pharmaceutical Rev'w Pub. Co.....	".....	25 00
41	"	Merck & Co.....	".....	40 00
42	"	American Druggist Pub. Co.....	".....	21 60
43	"	D. O. Hynes & Co.....	".....	36 00
44	"	J. S. Ford Johnson & Co.....	Chairs, etc.....	23 13
45	"	Fuller & Fuller Co.....	Asphaltum, etc.....	4 93
46	"	John McLogan.....	Plumbing, gas fittings, etc.....	34 70
47	"	Western Steam Boiler Works.....	Repairing set of tubes, etc.....	37 50
48	"	Chappell Chemical Co.....	Ammonia.....	1 95
49	"	Gilbert & Bennett Mfg. Co.....	Wire cloth.....	5 88
50	"	Richards & Co.....	Balance, tubing, chemicals.....	444 10
51	"	E. J. Anthony.....	Printing invitations.....	24 50
52	"	P. F. Pettibone & Co.....	Supplies, etc.....	3 20
53	"	Chicago Telephone Co.....	Services to January, 1898.....	31 25
54	"	F. W. A. Rowles.....	Supplies.....	2 00
55	"	W. B. Day, Actuary.....	Petty expenses to Oct. 15, 1897.....	48 30
56	"	W. A. Puckner.....	Salary, October, 1897.....	150 00
57	Oct.	30 C. S. N. Hallberg.....	".....	142 85
58	"	F. M. Goodman.....	".....	135 71
59	"	Frank S. Hereth.....	".....	71 42
60	"	L. I. Schreiner.....	".....	57 14
61	"	E. N. Gathercoal.....	".....	50 00
62	"	G. E. Chase.....	".....	14 28
63	"	W. B. Day.....	".....	96 41
64	"	Henry Eulert.....	".....	50 09
65	"	J. H. Clough.....	Rent, 6 months, to November, 1897.....	1,200 00
66	Nov.	15 Frank S. Hereth.....	Balance salary, June 30, 1897.....	23 00
67	"	C. S. N. Hallberg.....	".....	45 95
68	"	W. A. Puckner.....	".....	59 10
69	"	F. M. Goodman.....	".....	59 10
70	"	Fuller & Fuller Co.....	Chemicals.....	151 19
71	"	Searle & Hereth Co.....	Drugs.....	7 65
72	"	Registered Pharmacist.....	Advertisement.....	15 00
73	"	Meyer Bros, Druggist.....	".....	15 00
74	"	Pictorial Printing Co.....	Labels, etc.....	12 19
75	"	Orr & Lockett Hardware Co.....	Files.....	11 04
76	"	Peabody Coal Co.....	Hard coal.....	312 75
77	"	A. C. McClurg & Co.....	Tablets.....	3 52
78	"	Mercantile Printing Co.....	Printing.....	5 25
79	"	R. W. McCready Cork Co.....	Corks.....	8 65
80	"	Mandel Bros.....	Cloth.....	5 10
81	"	Lehn & Fink.....	Specimens of drugs.....	22 50
82	"	E. J. Anthony.....	Cards.....	6 00
83	"	A. M. Foster & Co.....	Prescriptions, boxes.....	22 55
84	"	Richards & Co.....	Chemicals.....	276 42
85	"	Donohue & Henneberry.....	Paper.....	6 50
86	"	Thayer & Jackson Station'y Co.....	Stencils, etc.....	3 20
87	"	S. B. Frank.....	Galvanized iron, labor, etc.....	31 40
88	"	W. A. Puckner.....	Salary, November, 1897.....	150 00
89	Nov.	30 C. S. N. Hallberg.....	".....	142 85
90	"	F. M. Goodman.....	".....	135 71
91	"	Frank S. Hereth.....	".....	71 42
92	"	L. I. Schreiner.....	".....	57 14
93	"	E. N. Gathercoal.....	".....	50 00
94	"	Geo. E. Case.....	".....	14 28
95	"	W. B. Day.....	".....	96 41
96	"	Henry Eulert.....	".....	50 00
97	"			

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
98	1897.			
98	Nov.	30 J. H. Clough.....	Rent of building, November, 1897 ..	\$200 00
99	"	H. W. Ralph, Agent.....	Typewriter and case.....	75 00
100	"	W. B. Day, Actuary.....	Petty expenses.....	32 68
101	Dec.	20 S. B. Traub.....	Castings for stove.....	7 60
102	"	Henry R. Strong.....	Advertisement.....	25 00
103	"	E. J. Anthony.....	Envelopes.....	2 00
104	"	Donohue & Henneberry.....	Paper.....	3 85
105	"	A. M. Foster.....	Chemicals.....	14 16
106	"	A. C. McClurg & Co.....	Tablets.....	2 35
107	"	Richards & Co.....	Tubing, flasks, etc.....	13 34
108	"	Fuller & Fuller Co.....	Chemicals.....	19 94
109	Dec.	31 W. A. Puckner.....	Salary, December, 1897.....	150 00
110	"	C. S. N. Hallberg.....	" ".....	142 85
111	"	F. M. Goodman.....	" ".....	135 71
112	"	Frank S. Hereth.....	" ".....	71 42
113	"	L. I. Schreiner.....	" ".....	57 14
114	"	E. N. Gathercoal.....	" ".....	50 00
115	"	Geo. E. Case.....	" ".....	14 28
116	"	W. B. Day.....	" ".....	21 41
117	"	Henry Eulert.....	" ".....	75 00
118	"	J. H. Clough.....	Rent of building, December, 1897.....	50 00
119	"			200 00
120	1898.			
120	Jan.	15 E. J. Anthony.....	Printing.....	3 50
121	"	T. P. Brankin.....	Sprinkling.....	10 00
122	"	W. B. Day, actuary.....	Expenses, gas, water, etc.....	61 40
123	"	Thayer & Jackson Station'y Co.....	Paper and stencils.....	3 60
124	"	Nebraska State Phar. Ass'n.....	Advertisement.....	5 00
125	"	C. P. Englehard & Co.....	".....	35 00
126	"	Price Bros. & Co.....	Glass, labels, etc.....	18 59
127	"	Richards & Co.....	Rubber tubing.....	5 30
128	"	Chicago Tel. Co.....	Services.....	31 25
129	"	Fuller & Fuller Co.....	Chemicals.....	17 92
130	"	W. B. Day, actuary.....	Petty expenses.....	38 02
131	Jan.	31 W. A. Puckner.....	Salary, January, 1898.....	150 00
132	"	C. S. N. Hallberg.....	" ".....	142 85
133	"	F. M. Goodman.....	" ".....	135 71
134	"	Frank S. Hereth.....	" ".....	71 42
135	"	L. I. Schreiner.....	" ".....	57 14
136	"	E. N. Gathercoal.....	" ".....	50 00
137	"	Geo. E. Case.....	" ".....	14 28
138	"	W. B. Day.....	" ".....	96 41
139	"	Henry Eulert.....	" ".....	50 00
140	"	J. H. Clough.....	Rent, January, 1898.....	200 00
141	Feb.	28 W. A. Puckner.....	Salary, February, 1898.....	150 00
142	"	C. S. N. Hallberg.....	" ".....	142 50
143	"	F. M. Goodman.....	" ".....	135 71
144	"	Frank S. Hereth.....	" ".....	71 42
145	"	L. I. Schreiner.....	" ".....	57 14
146	"	E. N. Gathercoal.....	" ".....	50 00
147	"	Geo. E. Case.....	" ".....	14 28
148	"	W. B. Day.....	" ".....	96 41
149	"	Henry Eulert.....	" ".....	50 00
150	"	J. H. Clough.....	Rent, February, 1898.....	200 00
151	"	W. B. Day, actuary.....	Expenses to February 19, 1898.....	48 91
152	"	Ebert's Pharmacy.....	Powder boxes.....	8 65
153	"	Western Union Tel. Co.....	Time service to March 31, 1898.....	3 00
154	"	A. W. Palmer.....	Expenses.....	11 16
155	"	Pictorial Printing Co.....	Tin boxes.....	2 50
156	"	Donohue & Henneberry.....	Paper.....	4 35
157	"	Richards & Co.....	Beakers, filters, etc.....	4 32
158	"	Fuller & Fuller Co.....	Chemicals.....	62 92
159	March	31 W. A. Puckner.....	Salary, March, 1898.....	150 00
160	"	C. S. N. Hallberg.....	" ".....	142 85
161	"	F. M. Goodman.....	" ".....	135 71
162	"	Frank S. Hereth.....	" ".....	71 42
163	"	L. I. Schreiner.....	" ".....	57 14
164	"	E. N. Gathercoal.....	" ".....	50 00
165	"	Geo. E. Case.....	" ".....	14 28
166	"	W. B. Day.....	" ".....	96 41
167	"	Henry Eulert.....	" ".....	50 00
168	"	J. H. Clough.....	Rent, March, 1898.....	200 00
169	April	30 W. A. Puckner.....	Salary, April, 1898.....	150 00
170	"	C. S. N. Hallberg.....	" ".....	142 85
171	"	F. M. Goodman.....	" ".....	135 71
172	"	Frank S. Hereth.....	" ".....	71 42

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
173	"	L. I. Schreiner	Salary, April, 1898.....	\$57 14
174	"	E. N. Gathercoal	"	50 00
175	"	Geo. E. Case	"	14 28
176	"	W. B. Day	"	96 41
177	"	Henry Eulert	"	50 00
178	"	J. H. Clough	Rent, April, 1898.....	200 00
179	"	W. B. Day, actuary	Petty expenses.....	35 83
180	"	The Neostyle Co	Paper	1 78
181	"	<i>The Inter Ocean</i>	Advertisement.....	5 00
182	"	The Chicago Telephone Co	Service	31 25
183	"	E. J. Abel & Co	Chemicals	1 80
184	"	Clark Bros.	Chloroform	4 41
185	"	Fuller & Fuller Co	Chemicals, etc	27 91
186	"	Goes Lithographing Co	Diplomas	12 50
187	"	Thayer & Jackson Station'y Co	Ink, etc	3 65
188	"	Donohue & Henneberry	Pads and paper	6 70
189	May 14	W. B. Day, actuary	Laboratory deposits refunded	67 43
190	"	E. J. Anthony	Printing	17 25
191	"	Thayer & Jackson Station'y Co	Stencil paper	1 50
192	"	The Neostyle Co	Paper and ink	1 19
193	"	W. B. Day, actuary	Expenses	112 13
194	"	Wendell & Co	Medals	20 00
195	"	Western Union Telegraph Co	Time service.....	3 00
196	"	H. Swannell	Expenses	15 68
197	May 31	W. B. Day	Salary, May, 1898.....	75 00
198	"	Henry Eulert	"	50 00
199	"	Goes Lithographing Co	Diplomas	13 50
200	"	W. B. Day, actuary	Expenses	39 25
201	June 30	"	"	71 21
202	"	Theo. C. Loehr	"	18 60
203	"	H. H. Rogers	"	4 75
204	"	Grimes & Sheehan	Replacing water pipe	4 50
205	"	Fuller & Fuller Co	Paint, etc	21 37
206	"	H. S. Cooper	Plastering and calcimining	53 00
207	"	D. O. Haynes & Co	Directory	5 00
208	"	E. J. Anthony	Envelopes, etc	54 00
209	"	S. W. Shattuck, business mgr	Sundry items	14 65
210	"	W. B. Day	Salary, June, 1898	75 00
211	"	Henry Eulert	"	50 00

SCHOOL OF MEDICINE WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 31	J. A. Wesner	Salary, July, 1897.....	75 00
2	"	W. A. Evans	"	50 00
3	"	W. T. Eckley	"	50 00
4	"	A. Gehrman	"	25 00
5	"	E. G. Earle	"	25 00
6	"	W. A. Pusey	"	41 66
7	"	J. S. Tomlinson	"	75 00
8	"	Miss E. M. Heelan	"	60 00
9	"	Geo. Johnston	"	40 00
10	"	Theo. Ticken	"	36 00
11	"	W. S. Royce	"	30 00
12	"	John McClain	"	25 00
13	"	<i>University of Chicago Weekly</i>	Advertisement.....	12 00
14	"	<i>Journal of Am. Medical Ass'n.</i>	"	16 00
15	"	West Side Hospital	Board	58 25
16	Aug. 31	Wm. A. Pusey	Petty expenses	100 00
17	"	D. A. K. Steele	"	50 00
18	"	Goes Lithographing Co	Printing warrant book, etc	14 84
19	"	S. W. Shattuck, business mgr	Gas	42 20
20	Sept. 15	Demonstrators' Ass'n of Ill.	Assessment No. 9	63 00
21	Sept. 24	Blakely Printing Co	Printing catalogue, etc	368 38
22	"	J. G. Lobstein	Carpenter work	427 00
23	"	Illinois Marble and Granite Co	Marble and brass work	584 15
24	"	<i>Post Graduate School of Med.</i>	Advertisement.....	60 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
25	Sept. 24	Winkle.....	Advertisement.....	\$5 00
26	"	McDonough & Co.....	"	25 00
27	"	Wesleyan Argus.....	"	3 00
28	"	Chicago Clinical Review P. Co.	"	18 75
29	"	Arbutus.....	"	25 00
30	"	R. L. Polk & Co.....	Addressing envelopes.....	33 00
31	"	Densonian.....	Advertisement.....	2 50
32	"	J. A. Wesener.....	Salary, August, 1897.....	75 00
33	"	W. A. Evans.....	"	50 00
34	"	W. T. Eckley.....	"	50 00
35	"	A. Gehrman.....	"	25 00
36	"	E. G. Earle.....	"	25 00
37	"	W. A. Pusey.....	"	41 66
38	"	J. S. Tomlinson.....	"	75 00
39	"	Miss E. M. Heelan.....	"	60 00
40	"	Geo. Johnston.....	"	40 00
41	"	Theo. Ticken.....	"	36 00
42	"	W. S. Royce.....	"	30 00
43	"	John McClain.....	"	25 00
44	Sept. 30	Wm. A. Pusey.....	Expenses of stenographer, etc.....	65 00
45	"	D. A. K. Steele.....	Petty expenses.....	56 57
46	"	University of Chicago Weekly.....	Advertisement.....	12 00
47	"	Cameron, Amberg & Co.....	Circulars.....	87 80
48	"	Brazil & Chicago Coal Co.....	Coal.....	20 82
49	"	Geo. T. Johnson.....	Toilet paper.....	9 00
50	"	Anchor Portl'd Cement Pav. Co.....	Raising walks, etc.....	29 43
51	Oct. 2	Marshall Field & Co.....	Materials.....	28 12
52	"	Fuller & Fuller Co.....	Benzine.....	2 05
53	"	H. Ahrens.....	Sugar.....	1 10
54	"	H. C. Hall.....	Advertising in periodicals.....	390 00
55	"	Jewish Herald Publishing Co.....	Advertisement.....	12 50
56	"	Brunswick-Balke Collender Co.....	Chairs, settees, etc.....	86 26
57	"	Otto Chellberg.....	Repairing bells.....	2 25
58	"	Red Cross Hygienic Co.....	Phenosote.....	6 25
59	"	P. F. Pettibone & Co.....	Paper.....	17 50
60	"	Samuel I. Pope & Co.....	Pipe and fittings.....	74 91
61	"	R. T. Jones.....	Painting, calcimining.....	336 00
62	"	H. M. Hooker Co.....	Benzine.....	3 64
63	"	Lyons' Orchestra.....	Music furnished.....	30 00
64	"	Exhardt Catering Co.....	Catering.....	60 00
65	"	Orr & Lockett Hardware Co.....	Frames and plates.....	9 25
66	"	E. Baggot.....	Gas fixtures.....	32 00
67	"	Journal of Am. Medical Ass'n.....	Advertisement.....	16 00
68	"	Medical Recorder Pub. Co.....	"	16 85
69	"	G. L. Harvey.....	Architect's services.....	60 00
70	"	Knox College Coup d'Etat.....	Advertisement.....	3 00
71	"	J. A. Wesener.....	Salary, Sept., 1897.....	75 00
72	"	W. A. Evans.....	"	50 00
73	"	W. T. Eckley.....	"	50 00
74	"	Adolph Gehrman.....	"	25 00
75	"	E. G. Earle.....	"	25 00
76	"	W. A. Pusey.....	"	41 00
77	"	J. S. Tomlinson.....	"	75 00
78	"	Elizabeth M. Heelan.....	"	60 00
79	"	George Johnson.....	"	40 00
80	"	Theo. Ticken.....	"	36 00
81	"	W. S. Royce.....	"	30 00
82	"	John McClain.....	"	25 00
83	Oct. 15	Richards & Co.....	Chemicals.....	1,154 71
84	"	G. D. Evans.....	Labor and material on building.....	269 33
85	"	John Parsons.....	Painting.....	35 00
86	"	John G. Bentler.....	"	7 05
87	"	Orr & Lockett Hardware Co.....	Door holders.....	2 00
88	"	W. A. Pusey.....	Expenses of stenographer and rent.....	65 00
89	"	University of Chicago Weekly.....	Advertisement.....	6 00
90	"	Chicago Addressing Co.....	Addressing envelopes.....	5 60
91	"	D. R. Grant.....	Lockers.....	15 00
92	"	Columbia Typewriter Mfg Co.....	Ribbons.....	4 95
93	"	Fantus & Son.....	Printing, etc.....	32 50
94	"	Rogers, Pitkin & Hall.....	"	14 40
95	"	H. Schiller.....	Palms.....	5 00
96	"	Physicians Supply & Drug Co.....	Surgical supplies.....	10 41
97	"	Sharp & Smith.....	"	81 01
98	"	Searle & Herath Co.....	Drugs, etc.....	20 46
99	"	J. S. Ford Johnson & Co.....	Chairs.....	31 25
100	"	E. Baggot.....	Contract gas fixtures, etc.....	35 10

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
101	1897.	College of Physicians and Surg	Rent 6 months to Oct. 21, 1897.....	\$6,000 00
102	"	S. W. Shattuck	Salary 6 months, Oct. 31, 1897.....	200 00
103	"	Harvey Bogarth, Business Mgr	Advertisement.....	6 00
104	"	Rogers, Pitkin & Hall	Printing.....	42 40
105	"	Chicago Telephone Co.	Services to Jan. 1, 1898.....	31 25
106	"	The P. & S. Plexus	Advertisement.....	26 69
107	"	James R. Pyne	Inspection of boilers.....	8 00
108	"	Cameron, Amberg & Co	Printing, etc.....	54 20
109	"	H. Ahrens	Sugar, etc.....	9 81
110	"	Fuller & Fuller Co.	Drugs.....	119 76
111	"	United Typewriter & Sup. Co.	Typewriter.....	75 00
112	"	The Gale	Advertisement.....	4 00
113	Oct.	30 J. A. Wesener	Salary, October, 1897.....	75 00
114	"	W. A. Evans	"	50 00
115	"	W. T. Eckley	"	50 00
116	"	Adolph German	"	25 00
117	"	E. G. Earle	"	25 00
118	"	W. A. Pusey	"	41 66
119	"	J. S. Tomlinson	"	75 00
120	"	Elizabeth M. Heelan	"	60 00
121	"	George Johnson	"	40 00
122	"	Theo. Ticken	"	36 00
123	"	Mrs. F. A. Grubb	"	30 00
124	"	Grace M. Bryant	"	28 84
125	"	C. H. Kuby	"	20 83
126	"	C. A. Albright	"	15 00
127	"	C. C. Hummel	"	15 00
128	"	Robert Emmerson	"	6 00
129	"	John McClain	"	25 00
130	Nov.	15 J. N. Hostetter	Coal.....	31 01
121	"	James Clancey & Sons	Plumbing, etc.....	152 05
132	"	Wm. A. Pusey	Expenses and rent, Oct., 1897.....	75 00
133	"	S. J. Stebbins Co	Door holder, etc.....	8 60
134	"	Wm. J. Bohm	Tubes, etc.....	12 25
135	"	West Side Hospital	Boarding and nursing patients.....	24 60
136	"	Sharp & Smith	Table and chair.....	22 00
137	"	S. C. A. Bulletin	Advertisement.....	4 00
138	"	The Student	"	6 00
139	"	Chi. Clinical Review Pub. Co.	"	18 75
140	"	M. Bondy	Brooms, etc.....	7 05
141	"	Fuller & Fuller Co.	Drugs.....	1 50
142	"	S. W. Shattuck, Business Mgr.	Gas and alcohol.....	88 99
143	"	Lawrentian Paper Association.	Advertisement.....	2 50
144	"	The P. & S. Plexus	"	53 32
145	"	Chas. Traux, Greene & Co.	Surgical supplies.....	5 52
146	"	Marshall Field & Co.	Cloth.....	61 08
148	"	Gaertner & Begennas	Coil, manometers, etc.....	80 35
148	"	Robert Emmerson	Labor.....	88 00
149	"	J. N. Hostetter	Coal.....	66 05
150	"	Fuller & Fuller Co.	Drugs.....	36 47
151	Nov.	30 J. A. Wesener	Salary, November, 1897.....	75 00
152	"	W. H. Evans	"	50 00
153	"	W. T. Eckley	"	50 00
154	"	Adolph Gehrman	"	25 00
155	"	E. G. Earle	"	25 00
156	"	W. A. Pusey	"	41 66
157	"	J. S. Tomlinson	"	75 00
158	"	Elizabeth M. Heelan	"	60 00
159	"	Geo. Johnson	"	40 00
160	"	Theo. Ticken	"	36 00
161	"	Mrs. A. E. Grubbs	"	30 00
162	"	Grace W. Bryant	"	32 00
163	"	C. H. Kuby	"	25 00
164	"	C. A. Albright	"	15 00
165	"	C. A. Hummel	"	15 00
166	"	Robert Emmerson	"	8 00
167	"	John McClain	"	25 00
168	Dec.	20 Felix Lang, Superintendent	Repairs on meter.....	2 85
169	"	G. D. Evans	Dissecting table, windows, etc.....	29 81
170	"	F. P. Smith Wire & Iron Wks.	Wire guard.....	14 85
171	"	Brunswick-Balke Collender Co	Oak pulpit.....	11 25
172	"	Sharpe & Smith	Surgical supplies.....	35 13
173	"	Searle & Hereth Co.	Drugs.....	4 32
174	"	Fuller & Fuller Co.	Drugs, etc.....	7 76
175	"	Crerar, Adams & Co.	Pail of Kleansall.....	3 00
176	"	West Side Hospital	Boarding and care of patients.....	23 40

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
177	Dec. 20	J. N. Hostetter	Coal	\$122 55
178	"	<i>P. & S. Plexus</i>	Advertisement	26 66
179	"	Medical Recorder Pub. Co.	"	10 13
180	"	S. W. Shattuck, business mgr.	Gas	78 70
181	"	Geo. T. Butler	Services	200 00
182	"	Cameron, Amberg & Co.	Register, books, etc.	21 78
183	"	W. A. Pusey	Expenses of stenographer	75 00
184	"	D. A. K. Steele	Petty expenses	56 21
185	"	Editors <i>Index Medicus</i>	Subscription	25 00
186	"	E. Baggot	Gas fixtures	12 00
187	"	Physicians' Supply & Drug Co.	Absorbent cotton, etc.	7 55
188	"	<i>The Illini</i>	Advertisement	20 00
189	"	Richards & Co.	Sterilizers, tubes, etc.	181 82
190	Dec. 31	J. A. Wesener	Salary, December, 1897	75 00
191	"	W. A. Evans	"	50 00
192	"	W. T. Eckley	"	50 00
193	"	Adolph Gehrman	"	25 00
194	"	E. G. Earle	"	25 08
195	"	W. A. Pusey	"	41 68
196	"	J. S. Tomlinson	"	75 00
197	"	Elizabeth M. Heelan	"	60 00
198	"	George Johnston	"	40 00
199	"	Theo. Ticken	"	36 00
200	"	Mrs. A. E. Grubbs	"	30 00
201	"	Grace W. Bryant	"	32 00
202	"	Chas. H. Kuby	"	25 00
203	"	C. A. Albrecht	"	15 00
204	"	C. C. Hummel	"	15 00
205	"	Robert Emmerson	"	8 00
206	"	John McClain	"	25 00
	1898.			
207	Jan. 15	Richards & Co.	Repairing microscopes, etc.	18 22
208	"	West Side Hospital	Board and care of patients	65 62
209	"	Sharp & Smith	Cat gut	2 25
210	"	Fuller & Fuller Co.	Chemicals	45 39
211	"	Chicago Engineer Supply Co.	Valves, etc.	15 90
212	"	E. L. Nims	Repairs on telephone, etc.	5 20
213	"	T. L. Flood	Advertisement	2 75
214	"	<i>Journal of Amer. Med. Ass'n.</i>	"	15 00
215	"	<i>P. & S. Plexus</i>	"	26 66
216	"	J. N. Hostetter	Coal	182 15
217	"	Varty Oil Co.	Boiler compound	5 00
218	"	Goodhart's New Method Lndry	Laundry work	22 22
219	"	Chicago Telephone Co.	Telephone services	31 25
220	"	W. A. Pusey	Expenses for stenographer, etc.	75 00
221	"	S. W. Shattuck, Business Mgr.	Gas	114 20
222	"	Demonstrators Ass'n of Illinois	Assessment No. 2	77 00
223	Jan. 31	W. A. Pusey	Salary for January, 1898	41 66
224	"	J. S. Tomlinson	"	75 00
225	"	Elizabeth M. Heelan	"	60 00
226	"	Geo. Johnston	"	40 00
227	"	Theo. Ticken	"	36 00
228	"	Mrs. A. E. Grubbs	"	30 00
229	"	Grace W. Bryant	"	40 00
230	"	Chas. H. Kuby	"	25 00
231	"	C. A. Albrecht	"	15 00
232	"	C. C. Hummel	"	15 00
233	"	Robert Emmerson	"	8 00
234	"	John McClain	"	25 00
235	"	J. A. Wesener	"	75 00
236	"	W. A. Evans	"	50 00
237	"	W. T. Eckley	"	50 00
238	"	A. Gehrman	"	25 00
239	"	E. G. Earle	"	25 00
240	"	S. W. Shattuck	Salary, three months	100 00
241	"	J. N. Hostetter	Coal	162 24
242	"	Geo. T. Johnson	Toilet paper	7 50
243	"	Chicago Clinical Rev'w Pub. Co.	Advertisement	13 75
244	"	<i>P. & S. Plexus</i>	"	26 66
245	"	Richards & Co.	Apparatus	192 25
246	"	Fuller & Fuller Co.	Chemicals	47 99
247	"	West Side Hospital	Board and care of patients	22 50
248	"	Searle & Hereth Co.	Drugs	10 50
249	"	W. A. Pusey	Expenses of stenographer	78 86
250	"	S. W. Shattuck, Business Mgr.	Gas	107 20
251	Feb. 28	J. A. Wesener	Salary for February, 1898	75 00
252	"	W. A. Evans	"	50 00
253	"	W. T. Eckley	"	50 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
254	Feb. 28	A. Gehrman	Salary for February, 1898	\$25 00
255	"	E. G. Earle	"	25 00
256	"	W. A. Pusey	"	41 66
257	"	J. S. Tomlinson	"	75 00
258	"	Elizabeth M. Heelan	"	60 00
259	"	Geo. Johnston	"	40 00
260	"	Theo. Ticken	"	36 00
261	"	Mrs. A. E. Grubbs	"	30 00
262	"	Grace W. Bryant	"	40 00
263	"	Chas. H. Kuby	"	25 00
264	"	C. A. Albrecht	"	15 00
265	"	C. C. Hummel	"	15 00
265	"	Robert Emmerson	"	8 00
267	"	John McClain	"	25 00
268	March 15	W. A. Pusey	Expenses	80 50
269	"	Fuller & Fuller Co.	Chemicals	76 63
270	"	Marshall Field & Co.	Cloth, pins, etc.	70 63
271	"	Richards & Co.	Caustic, pepsin, etc.	11 74
272	"	The West Side Hospital	Boarding and nursing patients	34 50
273	"	Sharp & Smith	Nail files, etc.	3 25
274	"	Medical Recorder Pub. Co.	Advertisement	10 13
275	"	<i>P. & S. Plecus</i>	" and copies of paper.	26 66
276	"	<i>The Northwestern</i>	"	6 00
277	"	E. D. Evans	Repairing buildings	26 10
278	"	Geo. L. Lenham Hardware Co.	"	4 85
279	"	S. W. Shattuck, Business Mgr	Gas bills	111 80
280	"	H. Ahrens	Soap, brooms, etc.	14 00
281	"	Library Bureau	Case	2 50
282	"	Goodhart's New Method L'ndry	Laundry	41 51
283	"	J. N. Hostetter	Coal	205 07
284	"	People's Gas Light & Coke Co.	Gas bills	77 40
285	"	P. F. Pettibone & Co.	Examination paper	8 50
286	March 31	J. A. Wesner	Salary, March, 1898	75 00
287	"	W. A. Evans	"	50 00
288	"	W. T. Eckley	"	50 00
289	"	A. Gehrman	"	25 00
290	"	E. G. Earle	"	25 00
291	"	W. A. Pusey	"	41 74
292	"	J. S. Tomlinson	"	75 00
293	"	Elizabeth M. Heelan	"	60 00
294	"	Geo. Johnston	"	40 00
295	"	Theo. Ticken	"	36 00
296	"	Mrs. A. E. Grubbs	"	30 00
297	"	Grace W. Bryant	"	40 00
298	"	Chas. H. Kuby	"	25 00
299	"	C. A. Albrecht	"	15 00
300	"	C. C. Hummel	"	15 00
301	"	Robt. Emerson	"	8 00
302	"	John McClain	"	25 00
303	"	D. A. K. Steele	Petty expenses	50 00
304	"	Richards & Co.	Crayons, centrifuge, etc.	4 75
305	"	H. Ahrens	Eggs, flour, etc.	1 13
306	"	Donohue & Henneberry	Advertisement	15 00
307	"	<i>The Illini</i>	"	20 00
308	"	D. A. K. Steele	Expenses of foot ball team, 1897	800 00
309	"	John G. Beutler	Repairing	5 15
310	"	James Clancy & Sons	"	6 31
311	"	Miller Chemical Engine Co.	Fire extinguishers recharged	1 50
312	"	E. Baggot	Electric lights and repairing	4 70
313	"	Armour & Co.	Pepsin	4 50
314	"	Fuller & Fuller Co.	Chemicals	23 06
315	"	E. L. Nims	Battery service	2 00
316	April 15	S. W. Shattuck	Salary, 3 months	100 00
317	"	W. A. Pusey	Rent and expenses	85 00
318	"	M. J. Corboy	Repairing	171 15
319	"	College Physicians & Surgeons	Rent, 6 months	6,000 00
320	"	Sharp & Smith	Instruments	1 80
321	"	E. Baggot	Filters and fitting	17 00
322	"	Fantus & Son	Letter heads and envelopes	5 00
323	"	Rogers & Hall	Printing and envelopes	30 25
324	"	Cameron, Amberg & Co.	Book, etc.	2 03
325	"	Gas Consumers' Ass'n.	Dues	7 50
326	"	Robert Emmerson	Preparing skeletons	80 00
327	"	The Searle & Hereth Co.	Tablets	5 66
328	"	Richards & Co.	Gelatine	16 90
329	"	Demonstrators' Ass'n of Ill.	Assessment	77 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
330	April 15	Fuller & Fuller Co.	Chemicals	\$32 68
331	"	Journal of Am. Medical Ass'n.	Advertisement	16 00
332	"	P. & S. Plexus	"	26 66
333	"	University of Chicago Weekly.	"	6 00
334	"	Chicago Telephone Co.	Telephone service	31 25
335	"	Geo. Richards Parr	Kleansall	3 50
336	"	Goodhart's N. M. Laundry	Laundry work	18 71
337	"	Chicago Addressing Co	Addressing envelopes	5 00
338	"	J. N. Hostetter	Coal	126 60
339	"	People's Gas Light & Coke Co.	Gas	59 00
340	"	West Side Hospital	Boarding and nursing patients	38 10
341	"	Western Bank Note & Eng. Co.	Diploma plate and diplomas	512 50
342	April 30	J. A. Wesener	Salary, April, 1898.	75 00
343	"	W. A. Evans	"	50 00
344	"	W. T. Eckley	"	50 00
345	"	A. Gehrman	"	25 00
346	"	E. G. Earle	"	25 00
347	"	J. S. Tomlinson	"	75 00
348	"	E. M. Heelan	"	60 00
349	"	A. E. Grubbs	"	30 00
350	"	Grace W. Bryant	"	40 00
351	"	W. A. Pusey	"	41 66
352	"	Theo. Tiekem	"	36 00
353	"	George Johnston	"	40 00
354	"	Charles H. Kubly	"	1 86
355	"	John McClain	"	25 00
356	"	C. A. Albrecht	"	15 00
357	"	C. C. Hummel	"	15 00
358	"	Robert Emerson	"	8 00
359	May 14	Fuller & Fuller Co.	Chemicals	29 28
360	"	Richards & Co	Casseroles	2 25
361	"	The West Side Hospital	Care of patients	9 60
362	"	Sharp & Smith	Instruments	1 80
363	"	J. N. Hostetter	Coal	90 60
364	"	<i>The P. & S. Plexus.</i>	Advertisement and copies of paper	26 66
365	"	Miller Chemical Engine Co	Recharging extinguisher	2 00
366	"	Geo. E. Cole & Co	Boxes	1 00
367	"	G. T. Johnson	Paper	7 50
368	"	H. Ahrens	Brooms etc	3 64
369	"	Auditorium Hotel	Banquet	267 50
370	"	Lyon's Orchestra	Service of orchestra	70 00
371	"	Goodhart's N. Method Laundry	Laundry work	14 56
372	"	D. A. K. Steele	Petty expenses	50 00
373	"	W. A. Pusey	Expenses	90 30
374	"	R. R. Donnelly & Sons Co.	Programmes	13 00
375	"	Rogers & Hall	Printing	27 75
376	"	C. L. Ricketts	Engrossing parchments	53 00
377	"	People's Gas Light & Coke Co.	Gas	45 40
378	"	A. H. Revell & Co.	Desk and chair	43 60
379	"	Ass'n of Am. Medical College.	Dues	5 00
380	"	Chicago Clinical Review Pub. Co.	Advertisement	18 75
381	"	J. Milhening	Medals	20 00
382	May 31	J. A. Wesener	Salary, May, 1898.	75 00
383	"	W. A. Evans	"	50 00
384	"	W. T. Eckley	"	50 00
385	"	A. Gehrman	"	25 00
386	"	E. G. Earle	"	25 00
387	"	J. S. Tomlinson	"	75 00
388	"	E. M. Heelan	"	60 00
389	"	E. A. Grubbs	"	30 00
390	"	Grace W. Bryant	"	40 00
391	"	W. A. Pusey	"	41 66
392	"	Theodore Tiekem	"	36 00
393	"	George Johnston	"	40 00
394	"	John McClain	"	25 00
395	"	C. A. Albrecht	"	15 00
396	"	C. C. Hummel	"	15 00
397	"	Robert Emmerson	"	8 00
398	"	D. A. K. Steele	Deposits refunded	1,271 05
399	"	Fuller & Fuller Co.	Chemicals	18 65
400	"	Sharp & Smith	Repairing	2 80
401	"	<i>The Ranger.</i>	Advertisement	2 00
402	"	<i>The Wesleyan Argus.</i>	"	2 60
403	"	<i>The Voice Publishing Ass'n.</i>	"	10 00
404	"	<i>The Delphic Publishing Ass'n.</i>	"	2 75
405	"	<i>Knox Coup d'Etat.</i>	"	1 55

Warrants—Concluded.

No.	Date.	To whom.	For what.	Amount.
406	May 31	<i>The Normal Advance</i>	Advertisement.....	\$2 00
407	"	<i>The Kansas University Weekly</i>	"	5 00
408	"	<i>The Chi. High School Review</i>	"	9 00
409	"	<i>The Vidette Reporter</i>	"	6 00
410	"	Egis Association	"	5 25
411	"	<i>Wrinkle</i>	"	5 00
412	"	<i>S. U. I. Quill</i>	"	4 00
413	"	<i>The Demsonian</i>	"	2 00
414	"	<i>College Index</i>	"	4 00
415	"	<i>The Student</i>	"	2 50
416	"	<i>The Knox Student</i>	"	3 50
417	"	<i>The Archæan Union</i>	"	4 80
418	"	<i>The Student</i>	"	3 00
419	"	<i>The Oberlin Review</i>	"	5 00
420	"	A. A. Stratford	"	1 20
421	"	<i>The Wabash</i>	"	3 00
422	"	<i>The Adelbert</i>	"	2 25
423	"	<i>The Hiram College Advance</i>	"	1 50
424	"	<i>The Oracle Co.</i>	"	2 60
425	"	<i>The Wooster Voice</i>	"	3 25
426	"	Hebard's Wareh'se and Van Co	Hauling.....	4 45
427	June 15	Imit. Typewrit'g and Add'g Co	Typewriting, addressing, etc.	186 42
428	"	D. A. K. Steele	Postage.....	1,330 00
429	"	<i>The '99 Syllabus</i>	Advertisement.....	6 00
430	"	Medical Recorder Publish'g Co	Advertising	10 14
431	"	<i>The P. and S. Plexus</i>	and copies paper.....	26 66
432	"	<i>The Hillsdale Collegian</i>	"	2 25
433	"	George E. Cole & Co.....	Printing.....	20 75
434	"	Library Bureau.....	Pens.....	1 00
435	"	J. N. Hostetter	Coal.....	43 86
436	"	Goodhart's N. M. Laundry.....	Laundry work.....	14 14
437	"	Columbus Food Laboratory..	Banquet.....	15 50
438	"	Marshall Field & Co.....	Cotton cloth.....	75 61
439	"	Physicians' Sup. and Drug Co.	Cotton.....	9 00
440	"	Richards & Co.....	Foil.....	40 10
441	"	Sharp & Smith.....	Instruments	6 75
442	"	Demonstrator's Ass'n of Ill.	Assessment.....	77 00
443	"	P. F. Pettibone & Co.....	Ruled sheets.....	12 75
444	"	Fuller & Fuller Co.....	Chemicals.....	9 63
445	"	William Allen Pusey.....	Expenses.....	91 25
446	"	People's Gas L't and Coke Co.	Gas.....	36 00
447	June 30	J. A. Wesener	Salary, June, 1898.....	75 00
448	"	W. A. Evans.....	"	50 00
449	"	W. T. Eckley.....	"	50 00
450	"	A. Gehrman.....	"	25 00
451	"	E. G. Earle.....	"	25 00
452	"	J. S. Tomlinson	"	75 00
453	"	E. M. Heelan	"	60 00
454	"	A. E. Grubbs	"	30 00
455	"	Grace W. Bryant.....	"	40 00
456	"	W. A. Pusey.....	"	41 66
457	"	Theodore Ticken.....	"	36 00
458	"	George Johnston.....	"	40 00
459	"	John McClain.....	"	25 00
460	"	C. A. Albrecht.....	"	15 00
461	"	C. C. Hummel.....	"	15 00
462	"	Fuller & Fuller Co.....	"	46 80
463	"	George Richards Parr	Kleansall.....	3 50
464	"	John G. Beutler.....	Oil, etc.....	9 90
465	"	<i>The P. and S. Plexus</i>	Advertisement.....	26 66
466	"	<i>The Univ. of Chicago Weekly</i>	"	12 00
467	"	The Proctor & Collier Co.....	"	17 50
468	"	The Searle & Hereth Co.....	Chemicals.....	6 40
469	"	Richards & Co.....	Laboratory supplies.....	556 02
470	"	Cap and Gown Co.....	Advertisement.....	10 00
471	"	<i>Western College Magazine</i>	Name service.....	25 00
472	"	<i>The P. and S. Plexus</i>	Postage.....	2 30
473	"	George E. Cole & Co.....	Binding.....	2 50
474	"	<i>Journal of Am. Medical Ass'n</i>	Advertisement.....	16 00
475	"	W. A. Pusey.....	Expenses.....	105 00

BIENNIAL REPORT OF THE ILLINOIS STATE LABORATORY OF NATURAL HISTORY.

To the Trustees of the University of Illinois.

GENTLEMEN: In pursuance to your general instructions as contained in your proceedings for 1892 (June meeting), I submit the following report of operations of the State Laboratory of Natural History for the past two years.

These operations have been connected almost wholly with the work of the State Entomologist or with that of the Biological Station. As the State Entomologist's operations will be reported, under the law, to the Governor previous to the next session of the Legislature, I will only say with regard to them here that they have been directed mainly to the study of the life histories of some of the insects injurious to corn, to an examination of the shade trees and other ornamental vegetation of several of the larger towns of central Illinois, and to work on the San José scale, distributed throughout the State.

Further investigation of the corn insects was undertaken with a view to preparing for my next biennial report a second installment of a monograph upon that subject. The study of the insects injurious to shade trees is the beginning of what I intend to make an exhaustive survey of that topic in this State; and the work on the San José scale has taken the form of a further examination of suspected premises with a view to the possible occurrence of hitherto undetected colonies of that insect in the State, a very thorough and careful spraying with insecticide solution of premises known to harbor the scale, the introduction of two fungus parasites of the scale obtained by me on a personal visit to Florida last spring, and several lines of experimental work undertaken in the hope of finding some cheaper and more effective insecticide than the one now generally in use. In this same connection I have provided for a general inspection of nurseries throughout the State, made at the expense of the nurserymen. Upon receipt of the report of the condition of these nurseries from my inspectors, I have given to nurserymen official certificates setting forth the facts as to the existence on their premises of insects likely to be conveyed in trade to the injury of their customers.

The operations of the Biological Station have been carried on during the past two years along lines practically the same as those previously reported upon, except that we have done much more during the last two years with fishes than previously, with the expectation of completing a formal report upon the fishes of Illinois on which considerable progress had been made by me long before the opening of the Station.

This study of the fishes of the Station field was taken up systematically in July, 1897, by Prof. Frank Smith, and continued by him without interruption until September 1 of that year. In the summer of 1898 this was passed over to Mr. Wallace Craig, assigned to the Biological Station as its resident naturalist, and he will make this his principal occupation during this entire year. He has been handsomely provided with various kinds of apparatus for the collection of fishes in all the Station situations, including seines of all sorts, fish traps of various size and construction, set nets, and trammel nets. This work is being so conducted as to give us correct ideas not only of the

species occurring at the Station, but of their relative abundance and local distribution, their haunts, their habits, their regular migrations and irregular movements, their breeding times and places, their rate of growth, their food, their diseases and their enemies, and, in short, the whole economy of each kind there represented and of the whole assemblage, taken together as a community group.

Extensive studies of the aquatic entomology of the situation have also been made, and an elaborate paper on ephemeroidea and dragon-flies, the joint contribution of Messrs. Hart and Adams, of the laboratory staff, and of Professor J. G. Needham, who worked with us during a part of the summer of 1897, is now nearly ready for the press.

The so-called plankton work, the systematic study, that is, of the minuter forms of plant and animal life suspended in the water, has gone steadily forward under Dr. Kofoid's immediate care. Refinements and improvements of method, new forms of apparatus, and a vast mass of material which has been largely identified and studied by him are some of the more obvious results of our recent work in this field. No part of the work of the Station attracts more general attention among scientific men or is likely to lead to more interesting and important results.

By the Chemical Department of the University regular analyses of the waters of certain selected localities have been made during the entire two years, including one series of analyses of the gaseous contents of the water, made at Havana, one for each of twenty-four consecutive hours. This chemical work combined with the continuous biological work of the Station will, when generalized, furnish a most substantial authoritative body of knowledge of the conditions of the waters of the middle Illinois previous to the opening of the Chicago drainage canal which can scarcely fail to have a high utility for comparison with the results of similar studies made after that event.

Our main equipment—the cabin boat, the launch, and the smaller boats—has served our purpose perfectly, and the Station property is in good order and condition in all respects.

The summer school for 1898, for whose expenses you voted a guarantee fund of \$300, proved a disappointment only in the number in attendance, a deficiency easily accounted for in part by the lateness of the period at which we were able to announce our session, and in part by the fact that we could not offer last year certain local and personal inducements which may easily be provided for another session. Authority to advertise the school was not given until the March meeting of the Board this year, too short an interval thus remaining before our opening in June. For want of any special building of our own we were obliged to resort to the village school building at Havana, generously placed at our disposal without compensation by the school trustees, and students of the school were thus compelled to live in the town. Vacation life in a village boarding house with work in a school room offers too little relief from the ordinary experience of the student or teacher to be especially attractive in itself. If the school is to be maintained—and I sincerely hope that it may be—we should have a plot of land on the banks of Quiver lake, two miles and a half above Havana, should have erected there a building suitable for summer use as a students' laboratory, should provide facilities for life in camp to those who prefer them, and should also make it possible for students to live either at that place or in town.

Fifteen students were in attendance throughout our term of four weeks. The only instructors regularly engaged were Assistant Professor Frank Smith, of the Department of Zoölogy, and Instructor C. F. Hottes, of the Department of Botany. The work was carefully planned and very thoroughly and efficiently done, and was received very cordially by all in attendance.

Publication of papers has been made by the State Laboratory to the full limit of our appropriation for this purpose, nine articles of our Laboratory Bulletin, comprising four hundred and thirty-eight pages of text and sixty plates, having been printed and distributed during the last two years. They set forth mainly the general results of our Biological Station work combined with the results of studies by advanced students and the Station staff upon

other collections of the State Laboratory, but include also an article on scale insects of the State and one on insect disease. The influence of the State Laboratory upon the Department of Zoölogy is shown by the fact that three of the above papers, each a valuable contribution to science, have been prepared by University students in the course of their work for first and second degrees. Such work would have been entirely beyond their reach except for the materials, equipments, and literature provided by the Laboratory, which has also borne the expense of their publication and illustration.

With respect to the future of this work I am strongly of the opinion that a decided advance should be made in the Natural History Survey, for which the Laboratory is responsible under the law of its establishment. The annual appropriations made of late have been too small to provide for more than the necessary operations of the entomologist's office, which they are made to cover, and those of the Biological Station, with some incidental general work naturally growing out of the operations of these two establishments. I see no reason why the State of Illinois should not provide in a suitable manner for the energetic prosecution of this survey work which it long ago authorized, and I propose, consequently, to ask of the next Legislature a suitable sum for this purpose and a separate sum for the economic investigations for which the State Entomologist is responsible. I think, also, that the Legislature might well be asked to enlarge the field of the State Laboratory of Natural History to include an economic geological survey, with such topographical work as this might require, and a biological survey of the water supplies of the State, conducted with special reference to sanitary interests, a subject which is certainly not less important in some of its aspects than that of their chemistry.

For details respecting the various departments of the work of the Biological Station you are respectfully referred to the appended reports of the Station Superintendent, Dr. C. A. Kofoid, or Prof. A. W. Palmer, Director of the Chemical Survey, of Mr. Chas. A. Hart, Entomologist of the Station, and of Prof. Frank Smith, who served for a time as its Assistant Zoölogist and as principal instructor in the summer school.

Respectfully submitted,

S. A. FORBES,

Director.

REPORT OF THE SUPERINTENDENT OF THE BIOLOGICAL STATION.

To the Director of the Laboratory.

SIR:—The past two years have offered new and interesting conditions in the environment in which the work of the Illinois Biological Station has been prosecuted. The period of 1894 and 1895 was one of typical low water, without an extensive rise of the river during the spring and early summer, when such floods usually occur. On the other hand, these years were not marked by long uninterrupted periods of very low water. Under these conditions of two years of generally low water, without marked fluctuations, the lakes were thoroughly choked with vegetation, and even the banks of the river itself became fringed with a rank aquatic growth. A rise of 12.6 feet, culminating January 6, 1896, was succeeded by a series of minor floods at intervals of about two months throughout the year. The net result was an increase in the average height of the river for the year, which was 6.87 feet above the low-water mark—fully two feet above that of the average for the two years preceding. This was, then, a high-water year, without marked fluctuations, and the result was that the vegetation remained to a considerable extent in the lakes and the river. The year 1897 opened with rising water, which culminated January 23 at 12.9 feet, while a subsequent rise on March 27 reached a height of sixteen feet—the highest point attained since 1892. From this maximum the river fell slowly through the four months that followed, reaching a minimum early in August. From this time until the close of the year, in consequence of a general drought throughout the State, low water persisted, there being only a slight rise as evaporation was checked during the cooler weather of Autumn. In spite of the long-continued low

water the average height for the year was 6.9 feet—a slight increase over the preceding year. There was thus present the somewhat unusual condition of the continued high water during the first half of the year followed by an uninterrupted period of unusually low water in the second half, the change from the one to the other being quite abrupt. Under these circumstances the vegetation was largely removed or its excessive growth prevented. This long-continued low water worked marked changes in the topography of the bottomlands adjacent to Havana. Phelps lake dried up earlier than it did the preceding year, Thompson's lake showed a marked diminution, principally at the northern and southern ends, long stretches of soft mud or matted vegetation in which dead fish were abundant being exposed. This mud, after a few weeks' exposure, hardened and cracked open to a depth of a foot or eighteen inches, and a growth of shore grasses began to spring up on it. Quiver lake, especially along the west shore and in the region known as Dogfish lake, was considerably reduced in area, and in the absence of any considerable amount of vegetation its depth was decreased more than usual. Flag lake, which in most years is a marsh with one to four feet of water filled with rushes, arrow leaves, water smartweed, water-lilies, and the lotus, dried up early and a wagon road was established across its bed. Havana lake, the expanse of the river above the mouth of Spoon river, presented the unusual appearance of a narrow river channel flanked on either side by a broad mud bank. The filling in and extension of these banks by the deposit of silt during recent years has been very marked, and is followed by an extension of the swamp willows over the rising banks.

In a general way the hydrological conditions of 1898 resembled those of 1897. The rise of the river began in January and continued through the winter, culminating April 2 at eighteen feet, a point equaled or exceeded but twice since 1879, at which time records were begun at the Government dam at Copperas Creek, eighteen miles above the location of the Station. As in 1897, the high water continued during the early summer, dropping rapidly in August to the minimum stage. It did not, however, reach the extreme condition of the previous year, several minor fluctuations having occurred at frequent intervals during the fall months. The reduction in the aquatic vegetation begun in the previous year has continued. The increased activity in the fishing industry has also contributed largely to the removal of the vegetation from the lakes and the river on the fishing grounds, so that the river is now practically free from vegetation, as is also the main body of Quiver lake and almost the whole of Thompson's lake, only a restricted area at the southern end retaining its former condition.

In previous years the field headquarters of the Station have been on Quiver lake, either at Foster's Landing or at the Indian mounds. In the fall of 1896 the new laboratory boat was brought down to town and was stationed at the public landing along the river front. This location has been retained during the last two years with the exception of a week in August, 1898, when the boat was moved up to the Twin Mounds during some continued work upon the plankton and gas analyses in the Illinois river near that point. The advantages of a location at town are the saving of the time required for transit to and from headquarters in the field and the expense of running the launch on these trips, and the ready access to the Station from living quarters at all times, while the distance from the collecting grounds is not greatly increased. Some disadvantages attend this location. The sheltered situation and the close proximity to the sand bluff increase the heat in the boat during the hot days in summer, and the nearness to the steamboat landing greatly increases the risk of damage to the boats and launch by the disturbance in the water caused by incoming and outgoing steamboats. Ropes and cavils are frequently broken, and boats are torn loose by the swells which follow in the wake of the larger steamers. On three separate occasions a steamboat in the

hands of an old and experienced pilot collided with our flotilla, resulting in the crushing and sinking of the steam launch in one instance, and in the breakage of glassware aboard the laboratory boat at another time. With the considerable and now increasing number of river craft of all sorts seeking temporary or permanent anchorage on the river front, we have been gradually crowded to the least desirable location, where the shore is somewhat springy, and where at low water access to our boat is possible only by means of a dike of sand or a trestle-work of planking, owing to the soft mud which is rapidly filling in the river front at this point. At such times our location is neither inviting nor salubrious. The crowding of the boats and the lax care usually given to such property in this locality greatly increase our danger of loss by wreck or fire while we remain in our present location. The experience of the past two years has only emphasized the necessity of the location of the Station at some suitable point—if at Havana, on Quiver lake—where we can control property which will afford us an abundance of room, freedom from disturbance, facilities for carrying on the shore operations that pertain to our work, and the location of breeding ponds.

The Station was occupied by the Station staff and in full operation in 1897 during the months of July, August, and September, and in 1898 from June 13 to October 1. In addition to this, monthly visits were made to it for plankton work during the winter and spring of 1897, and beginning with the autumn of 1897 visits were made for the same purpose until the full opening of the Station in June, 1898. As a result of these visits a very full series of winter collections has been accumulated. Since September 1, 1898, Mr. Wallace Craig, resident assistant at the Station, has been in charge during my absence. Previous to this time the property of the Station was cared for at such times by Mr. Miles Newberry, who has been in our employ as general collector, janitor and engineer for the past four years. His service has been efficient and faithful in all the manifold and varied tasks which fall to his hands.

The work of the Station has been in the main prosecuted along the lines established in previous years, with a few expansions in some directions and curtailments in others. The primary purpose of the Station, that of investigation, has been carried on along three principal lines: entomology, ichthyology, and the quantitative investigation of the minute life of the water. The entomological work has been in the hands of Mr. C. A. Hart, who was at the Station during considerable intervals in 1897 and 1898.

Investigation of the fishes was taken up in July, 1897, by Prof. Frank Smith, and was continued by him until September 1 of that year. In the summer of 1898 this work was taken up by Mr. Craig, and additional equipment has been provided. The Station was equipped with a hundred-yard river seine of an inch-and-a-half mesh, hung to fish eight feet; a forty-yard minnow seine of one-fourth inch mesh, hung to fish five feet; a thirty-foot minnow seine, hung to fish four feet; a Baird seine of the same dimensions; and a trammel net thirty yards in length and five feet in depth. The additions to the equipment consist of two set nets, one of three-fourths inch mesh and eighteen-inch hoops, the other of an inch-and-a-half mesh and four-foot hoops. Thirteen fish traps of quarter-inch galvanized wire netting were constructed especially for the work in deep water and in places where a minnow seine could not be used. They consist of a cylinder of netting ten inches in diameter, one end of which is closed by a circle of wood and the other by two successive funnels sloping inward, each with an opening three inches in diameter. For the capture of the smallest fish the nets are covered with fine wire cloth, and their efficiency is also increased by the use of wings of the same material or of minnow netting.

The plankton operations of the last two years have been carried on with increased regularity and greater attention to the correction of possible sources of error. The number of stations subject to regular examination at the beginning of the period covered by this report was seven; viz., the Illinois river two and a half miles above Havana, Quiver lake, Dogfish lake, Thompson's lake, Flag lake, Phelps lake, and Spoon river, the latter having been added to the list in August, 1896. The Illinois river Station was visited at intervals of one month until July, 1896, in which month

a number of examinations were made at frequent intervals during a remarkable development of a filamentous diatom, *Melosira*, in the plankton, and in correlation with gas analyses conducted by Professor Palmer. Weekly collections upon Tuesdays were begun August 3, 1896, and have since been maintained except when the condition of the ice or sickness necessitated a slight shifting of the day of collection.

The station in Quiver lake was visited during intervals of one month during the first half of 1897, but during the latter part of July and the month of August and September the interval was reduced to a week. In October fortnightly visits were commenced, and have since been maintained. In the summer of 1895 a plankton station had been established in the west arm of Quiver lake, known as Dogfish lake. Examinations were continued in this locality for two years at intervals of a month or less, but were discontinued in July, 1897. During much of the year the conditions at this station differed but slightly from those in Quiver lake. Vegetation is a trifle more abundant and its duration is more extended. Except at times of high water there is no current passing through this arm of the lake. The difficulty of access to this station at times of low water—due to the dense mat of *Ceratophyllum* through which the plankton boat must be rowed—were increased by the erection of a fence of wire netting across the mouth of the lake in the construction of a fish pond. In view of the similarity to Quiver lake and the difficulty of access, it seemed desirable to drop this station from the regular list, especially as the two years' collections of micro flora and micro-fauna will suffice for detailed comparison with the plankton of the main body of the lake.

Monthly plankton collections were made in Thompson's lake during the first half of 1897, but in July of that year a fortnightly interval was adopted and has since been maintained. This station is, next to the river, the most important one on our list, being located in the largest permanent body of water within the field of our operations. During the period of high water (three to four months of the year), it is of easy access, as it is possible at such times to run the launch through the "cut road" across the bottom lands to the south end of the lake. As the water falls access may still be had for some time with a row boat through the "cut road;" or at still lower water, through the "swale," a tortuous channel through the bottom land underbrush from the foot of Flag lake to Thompson's lake. When, however, the river falls below six feet, the only approach to this station is *via* Thompson's lake slough, a bayou connecting the lake with the river, leaving the latter at a point about six miles above Havana. Shallow water and a rank growth of aquatic vegetation found in some years at the northern end of the lake soon render it impossible to enter from the slough with the launch, and when the water falls below three feet a mud bar at the northern end of the slough necessitates making the remainder of the trip in a row boat. During the months of September, October, and the most of November, 1897, the river stood at the present low water mark, that is, about two feet by the gauge, and the lake was drained to the lowest limit reached since our operations were commenced at Havana. Its bed at the north end, for a distance of about three quarters of a mile, was exposed, leaving an expanse of the softest black ooze, through which a narrow, winding channel several feet in width, containing several inches of water, was kept open by our boats and those of occasional sportsmen. When winds from the north prevailed, even this insignificant highway was left bare. Under these conditions ingress and egress over and through this bed of ooze became a task of no small difficulty.

Owing to these two routes of approach to the lake, two points of collection have been established; one off Sand Point, in the northern half, and one about half a mile below Prickett's Landing, in the southern half. Both are in open water and at a considerable distance from vegetation, and are equally typical locations. Access to one of these two places is always possible during the period of open water, or when the lake is covered with thick ice, but when the ice is thin or rotten, it is at times only possible to work out a few rods from the shore with the aid of ax and ice-hook.

Plankton operations were not carried on in Phelps' lake in 1895, owing to the failure of the river to overflow the bottomlands sufficiently to invade and fill the lake. During this year a heavy crop of corn was raised in its fertile bed, but before it was harvested the following winter the water asserted its claim to this territory and has since held possession. The rise which culmi-

nated January 1, 1896, filled the lake, and the water slowly decreased until November, when the few shallow pools that remained were frozen solid. Water again entered the lake January 6, 1897, and the last pool was dried up about September 1 the same year. Toward the last of February, 1898, rising waters again poured into the lake, and owing to the high water of the past spring continued to occupy it and the adjacent territory until the middle of July. Since that time the depth of the water has decreased rapidly and by the middle of September the lake was reduced to a few large pools. During the first half of 1896 monthly collections were made, and since that date the interval has been reduced to a fortnight.

During the past year a drainage district has been organized in the territory including and adjacent to Phelps lake. The object of this organization is the reclamation of the fertile bottom south of Spoon river. A large dike is being built along the north limit of the district, reaching the river a short distance above the north end of Phelps lake. From this point it passes southward along the river bank for several miles to a point some distance below the mouth of Phelps lake slough, and then turns westward to the west bluff. The drainage of the enclosed area will be accomplished by several large ditches leading to the southeast, where pumping works are planned to insure the removal of the water when the surrounding country is flooded. Owing to the drainage of this lake our operations in this locality must cease with the present season, which leaves us in possession of quantitative collections extending through three years, in each of which the water entered in the winter or spring overflow, and was slowly removed by evaporation and seepage throughout the summer months, the catastrophe culminating in the late fall. We have thus in our possession a basis for a tolerably complete record of the seasonal fluctuations and changes in the fauna and flora incident to the drying up of this ephemeral body of water.

Since September, 1896, collections have been made in Spoon river at intervals of a month or less, and during this time a number of qualitative towings have been taken for us by Mr. W. R. Deverman, of Topeka, Ill., from the waters of Quiver creek. We have thus a good series of collections from tributary streams of the river for a comparison with those of the river itself.

A plankton station was established in September, 1895, in Flag lake, a large marsh between Thompson's lake and the Illinois river. Collections have been made here from that time at intervals of a month or less and were continued in 1897 until July. Owing to the abundance of vegetation in Flag lake this station was extremely difficult of access during the summer months, and owing to the abundance of flocculent debris of vegetation it was at all times difficult to secure a satisfactory quantitative collection from this body of water. As it was necessary to reduce the amount of field work, it seemed best for these reasons to drop this station permanently from the list of places subject to regular visitation. During the summer of 1898 plankton collections have been made from time to time at the mouth of Flag lake slough in the hope of finding here *Trochosphaera*, as in former years. None, however, could be found in this locality, or, indeed, in any other in our field of operations during the past summer.

As a rule the collections made at the plankton stations above enumerated included a vertical one, one from the surface, and one from the bottom water, all made with a pump and a net of No. 20 silk bolting cloth. In addition to these a catch from a liter of water from a vertical sample at each station was made with filter paper, and from five liters with the Berkefeld filter, the first method of filtration being introduced in September, 1896, and the second in November, 1897. The total number of bottles in the regular series for the years 1897 and 1898, each representing a different catch, is 1,075.

The collections above mentioned belong to the chronological series whose purpose is to afford a quantitative and qualitative representation of the changes through which the life in the water of the streams and the lakes examined passes during the course of a term of years. In addition to this series a considerable number of other catches have been made with a view to securing data upon certain allied and important phases of the plankton work.

The relation of the dissolved gases of the water to the amount and constitution of the life therein contained is an important problem, and an attempt to collect data has been made in connection with the chemical survey of the waters of the State. In July, 1897, Prof. A. W. Palmer, Director of this Survey, visited the Station and made a number of analyses of the oxygen dissolved in the surface and bottom waters in the lakes and river. In 1898 his visit was repeated, with Mr. R. W. Stark, assistant on the survey, and a number of similar analyses were made, the carbon dioxide being also determined. A series of collections extending throughout twenty-four hours was made from the surface and bottom waters of the Illinois river with a view of determining the diurnal fluctuation in the amount of the dissolved gases. In all these operations parallel collections of the plankton have been made at the same time and from water collected in the same manner, the plankton pump being used for the collection both of the plankton and the water for gas analysis. The twenty-four-hour series collected in 1898 can be brought into correlation with the movements of the water-bloom, which is a marked feature of the plankton of the river during the warmer months of the year. About one hundred bottles are comprised in the collections belonging in this series.

The serial plankton work rests upon the supposition that a single catch made in a typical locality of a lake or river will give a fair sample of the microscopic life of the water, both as to its quantity and constituent organisms. With a view of testing the validity of this supposition, Thompson's, Quiver, and Mantanzas lakes and the river have in previous years been subject to extended examinations, collections being made on the same date at a considerable number of localities at regular intervals throughout the body of water examined. In 1897 Thompson's lake was re-examined on this plan and a biographical cross section of the river was made at Harvard. The series of collections has been increased by twenty-five bottles during the period covered by this report.

The tests looked toward the detection and correction of sources of error in the plankton method and the justification of changes in it which we have made, have been continued during the past two years. Of the collections made in these tests about one hundred and fifty have been preserved. Tests have been made of the errors resulting from leakage, from the progressive clogging of the drawn net and the consequent variable coefficient, and from the active escape of the larger organisms of the plankton. Several types of funnels for the in-take of the plankton plump have also been devised and tested. Tests of the leakage through the silk and efforts to correct it by some form of micro-filter or precipitation method have also been continued. A variety of filters have been examined, including the Sedgwick-Rafter sand filter, using sharp Berkshire sand according to the directions of Calkins,* Jackson†, and Whipple‡. The loss by leakage from this filter was so great that we abandoned it and have been using filter paper as a supplementary method of collection since September, 1896, in all regular plankton examinations. For a short time ordinary filter paper was used, but owing to the looseness of its texture and consequent entanglement of the plankton and shedding of lint we rejected this paper and have since used the "hardened filter paper," No. 575, Schleicher & Schull. The water from which the sample for filtration is taken has been obtained by means of the pump. It was often necessary to take a much larger amount than was used filtration in order to secure a vertical collection. To obviate this and also to secure greater accuracy in the collection of a vertical sample, a vertical water-trap was devised, which consists of a light brass tube three inches in diameter and eight feet long, at whose lower end is a sliding brass gate by which the bottom of the tube can be closed after it is lowered to the desired depth.

Although the filter-paper collections served to correct the loss by leakage in

*Calkins, G. N.—The Microscopical Examination of Water. Rep. Mass. State Board of Health, 1891, pp. 396-421. 2 folding tables.

†Jackson, D. D.—An improvement in the Sedgwick-Rafter Method for the Microscopical Examination of Water. Tech. Quart, Vol. ix, pp. 271-274. 1896.

‡Whipple, G. C.—Experience with the Sedgwick Rafter Method at the Biological Laboratory of the Boston Water Works. 1 bid. pp. 275-279. 1896.

an important degree, the method was defective in that a small portion of the catch, varying with the amount and character of the plankton, remained on the filter paper, entangled in the fibres of its surface. To obviate this difficulty and to secure, if possible, a method which would be effective and permit the handling of a large quantity of water, experiments were made with the centrifuge. The small machine described in the last report and adopted by us for use in the measurement of plankton collections was found to precipitate a large per cent of the organisms present in the water, accordingly a larger machine was devised and built at the mechanical shops of the University for this purpose. It consisted of a hollow cylinder axis of gun-metal with two returning arms, each bearing at the elbow a detachable receptacle which receives the solid matter precipitated from the water, which last passed through the revolving axis and out to the tips of the elbows before it returns to the axis for discharge at the lower end. This machine is geared to give, with power, 8,000 revolutions per minute. When fitted with cranks for two men, four to five thousand revolutions can be obtained. This apparatus was tested with water from the river at a time when it was full of water bloom,—formed principally of *Carteria*,—and also with water from the lakes in varying kinds and amounts of plankton. It proved to be more effective in the removal of the plankton than any method previously tried, but the operation of the machine by hand was extremely laborious, and the precipitation of the plankton was very slow. Furthermore, a variable and oftentimes considerable amount of the plankton—especially that found in the water-bloom—is at times lighter than the water, and thus can not be removed by centrifugal force with the heavier constituents.

In November, 1897, a Berkefeld army filter (system Bruckner), was added to the plankton equipment. It is very efficient in removing all the solid matter from the water, and its operation with ordinary samples is quite rapid. It consists of a force pump and a cylinder of diatomaceous earth, upon which the plankton and silt contained in the water are collected. This is removed by washing with a brush, but in the process a part of the substances of the cylinder is brushed off. This debris is added to the silt of the water and renders subsequent microscopic examination more difficult. The brushing is also disastrous to some of the more delicate organisms, but leaves by far the greater part of the minute forms which escape the silt intact and in suitable condition for enumeration.

During the past two years some progress has been made with an examination, measurement, and enumeration of the plankton of the regular series, though much of the time has been given to the preparation of plankton apparatus and the improvement of the method. In this work the examination of the test collections by the enumeration method has been particularly time-consuming. The work of enumeration has been facilitated by the use of a set of six counting machines, which enable the observer to keep a record of six different species at once without the mental effort of carrying the count in the mind. An extended amount of this work remains to be done before we shall utilize to any considerable extent the collections now accumulated. This work will be necessary to the full confirmation of the results of our investigation, and will also be very valuable in suggesting new fields for development, especially along experimental lines. The present provision for this work is quite inadequate to a prompt return for our present investment in this department of the operations of the Station. The enumeration of the smaller organisms, especially under the higher powers of the microscope, is particularly taxing upon the eyes, and long continued application is a severe strain upon the nerves of the plankton statistician. I believe it to be possible by the expenditure of a small amount of money to secure student aid for some of this work in such a way as to render promptly available a considerable portion of the now latent results of our plankton work.

The sanitary analysis of the water in connection with the chemical survey of the waters of the State have been continued. Weekly samples have been collected through the two years from the Illinois river and from Spoon river on days when plankton examinations have been made. Similar regular collections were commenced in Thompson's and Quiver lakes in September and October of 1897, and have been continued in connection with the fortnightly

plankton work. The total number of samples for sanitary analyses collected at the Station and shipped to Champaign during the two years is two hundred and eighty. As these analyses include the determination of the free and albuminoid ammonia, the nitrites and nitrates, the chlorine, and the oxygen consumed, they will furnish data of great value for a comparison with those derived from the plankton work.

The shipment of samples to Champaign for an analysis of the gases dissolved in the water was begun July 23, 1897, samples being sent from the surface water of the river for the determination of the oxygen. In August fortnightly surface samples from Thompson's and Quiver lakes were added to the shipments, and in November additional samples were sent from each of these localities for an analysis of the carbon dioxide. With the beginning of 1898 samples were collected from both the surface and the bottom waters of the three localities above mentioned for the determination of both the oxygen and the carbon dioxide. This involves the collection and shipment of eight bottles of water from each of the three stations—a total of about nine hundred and fifty samples being shipped in 1897 and 1898. The water was collected with the plankton pump by means of a small pet cock inserted in the discharge pipe. A rubber tube is fastened upon this and inserted in the bottle and water sufficient to fill the bottle three times is pumped through it. The bottle is then closed, the sample being collected with a minimum contact with the air. If the change in the water between the time of collection and the time of analysis does not vitiate the results, we shall find these gas determinations of great importance in the discussion of the plankton data.

The equipment has been maintained in first-class condition so far as the wear and tear of property subject to the vicissitudes of an aquatic environment will permit. The hull of the laboratory boat has been provided with salt shelves and its bottom thoroughly salted to insure its preservation. The decks and guards have been painted repeatedly, and the canvas roof has received a heavy coat of paint. The floors have also been treated with several coats of oil. Three years experience in our floating laboratory has only increased our satisfaction with its fitness and convenience for the work of a biological station.

The steam launch, with the new equipment of machinery described in the last report, has been of great service. A few repairs have been made from time to time upon the engine, and the boiler and stack have been provided with a shield to decrease heat in the launch. New tubes have also been placed in the boiler. In 1897 the steamer "Josie Sivley" collided with the "Illini" while she was at anchor on the river front, and crushing her against the guard of the laboratory boat opened a seam up the larboard side and broke several ribs and a staunchion. The launch sunk in shoal water and was easily raised, the damage being subsequently thoroughly repaired. In the spring of 1897 Mr. Newberry secured an engineer's license, and has since cared for the launch.

During the session of the summer school the carrying capacity of the launch is severely taxed in providing transit for the field excursions of the classes. At no time is the speed very great, seven miles an hour being the maximum maintained. Furthermore, the draught of the boat interferes with its greatest usefulness in the shoal waters in which at times our work compels us to go. It is only a question of time when extensive repairs will be necessary upon the hull. I would therefore recommend that an effort be made to secure a larger boat with more powerful machinery so as to carry more passengers and, if necessary, to tow a barge. Greater speed and less draught can be secured with such a boat. It would also enable us to considerably extend the field of our operations. Such a launch will be a prime necessity when the work of the Station is extended to the Mississippi river.

The outfit of small boats, which consist of two lap-streak lake-boats, one lap-streak river boat, and an Illinois river skiff, has been supplemented by the addition of a large flat-bottomed seine boat twenty feet in length with five-foot beam for the plankton work. The increasing complexity of this work and the variety of apparatus necessary for its performance has made the load required

for a plankton trip too cumbersome for an ordinary boat. The total weight of the boat when manned and loaded with the outfit and water samples is not less than one thousand pounds. The increased attention given to winter work has necessitated the adaptation of the boat to the exigencies of that season. The bow and sides are protected with a sheath of zinc, and while the ice prevails the bottom is shod with two steel runners. With the boat thus equipped it is usually possible by rocking the boat and skillful manipulation of the ice-hooks to beat a way through the thin and rotten ice which will not carry the weight of the load, while the runners allow the boat to slide easily over the surface of the smooth ice wherever this is strong enough to bear the weight. The greatest difficulty attending transit in the field in the winter occurs at times when the river is low and access to Thompson's lake must be had by portage across the bottomlands at the southern end of the lake. A pair of wheels has been rigged up for this work, but in wet weather or after heavy snows they are hardly adequate to the task.

In the fall of 1896 the rented quarters which the Station had occupied in town were given up, and the property there accumulated was placed on board the laboratory boat. When the Station was opened the following summer it was necessary to secure storage elsewhere for property of a bulky nature or that for which there was only occasional use, and by the courtesy of the Illinois State Fish Commission we utilized a corner of their warehouse on the river front until the burning of the building in September. We suffered no loss of consequence, and our property, some of it in a damaged condition, was then returned to the laboratory boat for the winter. In 1898 the problem of storage was temporarily solved by the purchase of a cheaply constructed cabin boat twelve by twenty feet.

Although no formal opening of the Station to students was made during the summer of 1897 and no advertisements of its facilities was undertaken, a few applicants for places were accommodated under the conditions attending the opening of the Station to such persons in previous years. The following is a list of those in attendance and the lines of work pursued.

H. C. Beardslee, A. B., Instructor of Science, University School, Cleveland, Ohio. Fleshy fungi and Mycetozoa.

Miss Bertha V. H. Forbes, B. S., Teacher of Biology, High School, Austin, Ill. General biology.

H. M. Kelly, A. M., Professor of Biology, Cornell College, Mt. Vernon, Iowa. Trematoda parasitic in Unionidæ.

S. D. Magers, B. S., Principal of High School, Houston, Texas, Algæ and general biology.

H. L. Roberts, Superintendent of Schools and Principal of High School, Farmington, Ill. General biology.

The following year a summer school of biology, with regular courses in botany and zoology and offerings of advanced work in zoology was planned, and authorized at the March meeting of the Board of Trustees. The school was well advertised in the educational journals, and preliminary and final circulars were distributed as far as possible among the teachers of the State. Extended advertising in the neighboring states was not attempted. The Station staff was mainly responsible for packing and shipping the equipment sent over by the University and the State Laboratory and for its return, for the registration of students, and for the financial management of the school. No effort was spared to make the equipment of the Station of use to the school. The board of education of Havana placed the high school building at our disposal for the summer school, and the teachers' institute in session during the opening days was transferred to one of the churches by the county superintendent, Mr. M. Bolan.

The following is a list of the persons in attendance and their present positions:

Miss Anna L. Baldwin, Science Teacher, High School, Pittsfield, Ill.

T. L. Cook, Superintendent of Schools, Mt. Pulaski, Ill.

Wallace Craig, B. S., Assistant of the Illinois State Laboratory of Natural History, Havana, Ill.

Miss Louise S. Dewey, B. S., Fellow in Physiology, University of Illinois, Urbana, Ill.

C. C. Faust, Superintendent of Schools, Mansfield, Ill.

J. F. Garber, A. B. Instructor in Biology and Mathematics, High School, Houston, Texas.

J. T. Johnson, Teacher of Biology, High School, Galesburg, Ill.

Miss Nellie I. Kofoid, B. S., Science Teacher, High School, DeKalb, Ill.

J. E. Meharry, Student, University of Illinois, Tolono, Ill.

Mrs. Sara E. Pierce, Principal of High School, Havana, Ill.

W. E. Praeger, Student, University of Illinois, Keokuk, Ia.

L. H. Pratt, Teacher, Clear Creek, Ill.

F. W. Schacht, M. S., Principal of High School, Chicago Heights, Ill.

Otto Widmann, Student, University of Illinois, Old Orchard, Mo.

C. W. Youngs, B. S., Assistant in Botany, University of Illinois, Urbana, Ill.

The total number enrolled in the School was fifteen. Of these nine are teachers of natural science in this and other states. Three of those in attendance are now connected with the University as assistants or fellows. Nine of the fifteen students of the school have been or are connected with the University, three are now undergraduates, and six have received their diplomas, two of them remaining as graduate students. This summer school of biology might be made a very efficient means of attracting attention to the facilities which the University offers for instruction in the sciences, since students availing themselves of the opportunities of the summer school are apt to be drawn to the University for further work.

Although the number in attendance was not so large as had been expected, still certain features of the enterprise are encouraging. Among these is the cordial response of the citizens of Havana to those needs of the school which can be supplied only by local support. There was no difficulty in securing pleasant and comfortable accommodations for all in attendance; and a much larger number would not have exhausted the facilities offered. From its beginning the Station has received generous treatment at the hands of the business men of the town. Indeed, the granting of a site for a Station building upon the public river front on the bluff overlooking the river has been urged in the local press. A second encouraging feature is the satisfaction expressed by those in attendance with the work they have been able to accomplish in Havana, and the frequently repeated desire to continue it when opportunity offers.

Very respectfully yours,

C. A. KOFOID,

Superintendent of Biological Station.

REPORT ON WATER ANALYSES.

To the Director of the Laboratory.

SIR: During the two years just passed the number of water samples, from the streams and lakes in the vicinity of Havana, Illinois, which were examined by the State Water Survey as conducted by the department of Chemistry of the University, were as follows: Illinois river and Spoon river 102 samples from each, these being regular weekly collections from each of these sources. The collections from Quiver lake number, all told, 28, and a like number has been taken from Thompson's lake. The waters from these different sources have been subjected to the regular sanitary analysis and

there has been in the different seasons of the year considerable variation in the quantities of organic matters contained, but it is to be noted that the quantities of organic matters in the water of the Illinois river and in the lakes adjacent thereto are ordinarily very high even for surface waters. During the last twelve months the average in the river and also in the lakes shows that the quantity of sewage contained has been considerably less than it was during the preceding twelve months, due of course to the fact that there have been repeated periods of high water and a more generally distributed rainfall during the year of '97-'98 than was the case during '96-'97.

Attempts have also been made during the last year to determine the quantity of dissolved oxygen and of dissolved or free carbonic acid gas in the waters of the Illinois river and the lakes at Havana. We have met with considerable difficulty in making these determinations because of the necessity of doing most of the work here at Champaign. The conditions are particularly unfavorable for work at a distance because of the large quantities of organic matters contained in the water, and, further, because these matters are in a state of putrefactive change, that is, are undergoing somewhat rapid decomposition. The determinations of dissolved oxygen, consequently, commonly give us figures somewhat too low. Tests made on the spot at the time of collection show that the quantity of dissolved oxygen is ordinarily diminished very quickly on standing a few hours, particularly when the vessels containing the water are exposed to the light. Our results, however, have been obtained under practically similar conditions throughout the season and they show considerable variation, at times the quantity of dissolved oxygen being exceedingly low, while at other times the quantity reached the approximate maximum figure. This is true not only of water contained in the river, but also of the water of the lakes. The data which we have in hand have not yet been digested and can not be until the work has been carried on somewhat more extensively. The free carbonic acid,—that is the carbonic acid which exists not in combination with the bases in the water, but as gas merely dissolved in the water—varies yet more greatly than does the dissolved oxygen. At times there seems to be none present; at other times the quantity present is quite considerable; but these determinations are even more greatly influenced by permitting the samples to stand, or by the time which elapses during their transportation to the laboratory, and we can not at present attach very great importance to the results which have hitherto been obtained.

We expect soon to be able to extract gases from water by means of an air pump, and then we shall be in a position to obtain results which will not be influenced by the conditions mentioned above, and, provided we shall be able to have collections carefully made at Havana, the work can very easily be continued and completed here at the University.

Since early in the summer of 1897 we have made regular determinations of dissolved oxygen and of carbon dioxide in samples taken from the Illinois river and from Thompson and Quiver lakes, but the earlier results are less reliable than those obtained during the last six months, and these later results are themselves not sufficiently reliable to be made at present the basis of any general conclusions.

Yours very respectfully,

ARTHUR W. PALMER,
Professor of Chemistry.

REPORT OF THE ENTOMOLOGICAL ASSISTANT.

To the Director of the Laboratory.

SIR:—During the season of 1897 I was in the field, primarily for entomological observation and collection, from June 29 to August 13, giving attention particularly to the gathering of information and material for use in completing our work on *Odonata* and *Mollusca*. In 1898 two visits to the field were made for work on *Odonata*, *Ephemera* and *Mollusca*; a week in spring, from April 19 to 25, and two weeks in midsummer, from June 21 to July 7.

The accumulations of material and notes were already sufficiently large for group studies at the beginning of the two year period covered by this report. Every opportunity has been taken to make desirable additions to them, and they now stand as a superb basis for the study of any group of aquatic forms. The material is all arranged by orders, and consists of about 4,250 vials and bottles of specimens.

There are now in various stages of preparation four papers, mainly on the entomology of the biological station field, one each on the *Odonata*, the *Ephemera*, the fresh water *Mollusca* and the aquatic *Coleoptera*. The order of procedure which I have endeavored to pursue in the preparation of these papers, and which seems to lead to the most satisfactory and accurate results, is as follows: First, the collection of a large quantity of material and data under the greatest possible variety of conditions as to locality, surroundings, stage of water, season and time of day; then the careful study of these, in connection with the literature, and the making of copious notes and sketches preliminary to the preparation of manuscript, all evident deficiencies either in material or data being carefully noted down; next, a return to the field at times and places indicated by the previous collections for the special purpose of supplying, as far as possible, these deficiencies, and finally, after further study of the literature, the writing of the manuscript.

In the preparation of the paper on the *Odonata* I have had the valued assistance of Prof. J. G. Needham and Mr. C. C. Adams, who have furnished the systematic work on the nymphs and adults respectively, while it has been my part to discuss the biology and ecology of the group and its species and to combine the several manuscripts into a single paper—now nearly ready for the press. Under Mr. Adams' supervision the State Laboratory Artist, Miss Hart, has prepared a valuable series of 134 drawings illustrating the abdominal structures of nearly all our Illinois species, and a series of general drawings of the nymphs and their distinguishing structures is well under way.

For the article on *Ephemera*, the Station collections and notes have all been examined and the results are nearly ready to be put in manuscript form. It would add greatly to the usefulness of the paper, however, if a study of the large series of nymphs of this order in the general collections of the State Laboratory could be made before the article is completed.

Much time and labor have been spent on the *Mollusca* in the endeavor to place the study of this group on a truly scientific basis. Not merely the shell but all parts of the animal were studied, full use being made of the unusual facilities at the Station for work of this kind. The univalves of the Station collection have been determined by Mr. H. A. Pilsbry, of the University of Pennsylvania, and the *Sphaerium* and *Pisidium* by Dr. V. Sterki. More time could profitably be spent on the biology of the *Unionidae*, but otherwise the notes are ready to go into manuscript form.

The collections of water beetles have been exhaustively studied and determined, but the systematic examination of the immature stages has not yet been reached.

Respectfully submitted,

C. A. HART,

Entomological Assistant.

REPORT ON THE SUMMER SCHOOL OF 1898.

To the Director of the Laboratory.

SIR:—Of the fifteen persons in regular attendance at the summer school twelve were either teachers or preparing to teach, in our public schools. Five of them had received training in the laboratories of the University of Illinois, but nearly all of them were without any considerable experience in fieldwork or in the methods of collecting and preserving aquatic organisms. On this account especial prominence was given to tri-weekly excursions for collecting and field observation, and these furnished probably the most important elements in the work of the session. With the steam launch, row boats, and

needful collecting equipment of the Biological Station the entire party made trips to Matanzas, Thompson's, and other lakes within reach of Havana. The use of the Station launch made the excursion highly enjoyable, and by reducing to a minimum the time *en route* gave the party ample opportunity for observing, collecting, and preserving such animals and plants as would best repay further study, or would be useful in the laboratories or museums of the high schools in which the various teachers present were interested. The work done in the laboratory by the several members of the school was largely determined by their past experience and the application to be made of of the knowledge acquired.

Soon after the opening of the session it became evident that the needs of the students would be best met by dividing their time equally between the zoology and botany; the forenoons were accordingly given to the former, and the afternoons to the latter.

In the department of zoology emphasis was given to the lines of work most useful to teachers. Material collected on excursions was used in various ways. For correct methods of dissection as well as better knowledge of anatomical details some work in dissection was done. Time was also given to acquiring the best methods of preserving specimens of various kinds of animals, as *Hydra*, worms of various groups, mollusks, *Crustacea*, insects—both larval and mature—and fishes. The identification of annelid worms, insects, mollusks, and fishes received due attention, and was aided by named collections belonging to the State Laboratory, and also by literature and by a number of synoptic keys to these groups prepared by members of the State Laboratory staff. As a result of this part of the work, teachers were enabled to take home with them properly preserved and named collections of various kinds of animals. All persons not already familiar with the ordinary methods of section cutting and the making of permanent microscopic preparations had practice in such work.

The work in botany consisted of as thorough a study of the aquatic and terrestrial flora of the surrounding region as the time would allow. The algæ of the Illinois river and connected waters were studied with special reference to their morphology and reproduction. The relation between land and water plants, both as to their differences in morphology and distribution, was observed and discussed on the field trips.

The phanerogams of the vicinity were treated with special reference to their adaptation for protection and cross fertilization. Instruction in the methods of the collection and preservation of herbarium material was given to those who desired it. The systematic work on the higher plants was in the nature of a study of the characteristics of orders from different representatives rather than by following an artificial key.

General plant physiology was illustrated by demonstrations with apparatus such as can be employed in laboratories of limited equipment. In the field special attention was paid to the movements of plant parts as influenced by light, temperature, and progress in seed development. Time at the end of the month was devoted to a discussion of the matter presented and its adaptation to the needs of the secondary schools, with which most of those present were connected.

Each student was provided with a first-class compound microscope for use in both botany and zoology and had also the use of a microtome and an abundance of apparatus, reagents, and general laboratory equipment from the zoological, botanical, and entomological laboratories of the University. An abundance of literature for general reading as well as for work on special groups was provided from the libraries of the University and the State Laboratory.

The instruction in field and laboratory was supplemented by lectures on special forms and groups of animals, and by others, of general biological interest on cell division, development, parasitism, cross-fertilization of plants, adaptive modifications for protection, etc.

Very respectfully yours,

FRANK SMITH,
Assistant Professor of Zoölogy.

AGRICULTURAL EXPERIMENT STATION.

To the Board of Trustees of the University of Illinois.

GENTLEMEN:—By action taken by your honorable body at your meeting held June 9, 1896, the organization of the Agricultural Experiment Station was changed so that instead of a Board of Direction, to which the staff of Station officers were responsible, the office of Director was established, and this officer was charged with the entire responsibility for the work and business of the Station. By your appointment I was made Director of the Station and have continued in charge.

PRINCIPAL LINES OF WORK.

The energies of the Station have been directed principally to experiments in cattle feeding to determine variations in animals; variations in milk; production of pure milk; breeding of Indian corn; methods of cultivation of Indian corn; chemistry of the corn kernel; testing different treatments on permanent plats of prairie soil; the white clay soils of Southern Illinois; the sugar beet for Illinois; spraying for insect and fungus enemies of fruits; observations on varieties of apples, pears, and grapes; smuts and their prevention; the smut of broom-corn, sorghum, and Indian corn.

I beg leave also to refer you to reports in detail made in March, of 1897, and March, of 1898.

PUBLICATIONS.

Eight regular bulletins, Nos. 45 to 52, inclusive, and one special bulletin, and the tenth and eleventh annual reports have been published and distributed during the two years at an expense of \$2,065.32. The bulletins contained in all 252 pages. The annual report for the years 1896-7 and 1897-8 contained 18 and 16 pages respectively. One thousand copies of each were printed.

Besides these eight circulars were published. The articles contained in the bulletins and circulars were as follows:

Bulletin No. 45, 17,000, July, 1896, 32 pp. Varieties of Apples.

Bulletin No. 46, 17,600, January, 1897, 24 pp. Experiments with Corn. Attempts to grow Crimson Clover. On the Improvement of Retentive Clays; Drainage of the So called "Hard Pan" Lands of Southern Illinois. On the Importance of Physiological Requirements of the Animal Body; Results of an Attempt to Grow Cattle Without Coarse Food.

Special Bulletin, 2,500, March, 1897, 4 pp. Smuts and Their Prevention.

Bulletin No. 47, 17,000, March, 1897, 48 pp. Broom-Corn Smut.

Bulletin No. 48, 17,000, April, 1897, 16 pp. The San José Scale in Illinois.

Bulletin No. 49, 18,000, January, 1898. The Sugar Beet in Illinois, 52 pages, 13 illustrations.

Bulletin No. 50, 17,000, February, 1898. Cost of Production of Corn and Oats in Illinois in 1896, 24 pp.

Bulletin No. 51, 17,000, May, 1898. Variations in Milk and Milk Production, 28 pp.

Bulletin No. 52, 17,000, June, 1898. Orchard Cultivation, 24 pp., 13 illustrations.

Annual Report, 1896-7, 1,000, 18 pp. and cover.

Circular No. 3, October, 1897, 1,000. Instructions for Taking Samples of Sugar Beets for Analysis, 2 pp.

Circular No. 4, December, 1897, 1,000. Alfalfa, 4 pp.

Circular No. 5, December, 1897, 1,000. The Cow Pea and the Soja Bean, 4 pp.

Circular No. 6, December, 1897, 1,000. The Sugar Beet in Illinois, 4 pp.

Circular No. 7, January, 1898, 1,000. Sugar Beet Convention, 2 pp.

Circular No. 8, March, 1898, 1,000. Spraying Fruit Trees, 3 pp.

Circular No. 9, April, 1898, 1,000. Instructions for Growing Sugar Beets.

Circular No. 10, May, 1898, 1,000. Experiments in Corn Cultivation.

Respectfully submitted,

EUGENE DAVENPORT,

Director of Agricultural Experiment Station.

SPECIAL REPORT OF THE SCHOOL OF PHARMACY.

To the Trustees of the University of Illinois.

Gentlemen: The Chicago College of Pharmacy, now the School of Pharmacy of the University of Illinois, was founded in 1859 by a number of pharmacists of Chicago and vicinity for the purpose of affording to their apprentices and to others a course of pharmaceutical instruction,—a course not then to be had at any school or university in the West.

At its inception, the course consisted entirely of lectures, given during the evening hours, when the clerks could best be spared from their duties in the drug stores.

As the institution grew, the scope of the course was extended, laboratory instruction was introduced and made a feature, day classes replaced those which had been conducted in the evening, and an excellent equipment was gradually provided.

At the time of its union with the University, the course given by the School, and leading to the degree of graduate in pharmacy or pharmaceutical chemist, embraced instruction covering a period of two school years of seven months each and amounting to seven hours daily for three days each week. The annual attendance at this time was 160 and the total number of graduates nearly 900. The College possessed a serviceable equipment and occupied a leased building, which had been erected especially for its use. Chicago real estate, amounting to a little more than two acres, also formed a part of the college property.

Until this time, the College had been governed by an association of which any graduate of the school or pharmacist of the state might become a member. Under this government all receipts in excess of the running expenses were used in adding to the equipment of the school.

The trustees of the corporation had long been of the opinion that the college should be made a part of some university, and as the State, through the pharmacy law, demanded a pharmaceutical training of those desiring to qualify for the practice of pharmacy, it was the unanimous opinion of the members of the college association that the school should preferably be joined to the State University.

This union was effected upon the first of May, 1896.

At the session following, the attendance showed a decided increase, the number of matriculants being 181. A year later, however, the school felt the effects of the business depression, very marked in drug lines particularly, and the attendance decreased to 140. During these two years 80 students were graduated.

At the request of the President of the University, the state pharmaceutical association at the annual meeting held in July, 1896, nominated ten pharmacists, from whom the president was to select five, to constitute an advisory board, whose aim would be to aid the University management in an advisory capacity, in the government of the school. It was further arranged that these first members should serve for one, two, three, four and five years respectively, new members to serve five years, and that one new member should be

selected annually from among three names submitted, these three being nominated, by ballot, by the pharmacists of the state. This arrangement was perfected and the Advisory Board, so created, has held two annual meetings and has, at each meeting, presented to the Trustees a report embodying suggestions touching the School of Pharmacy.

The course of instruction now given at the school, is such as is, in the opinion of the faculty, best fitted to impart to the student a thorough and practical knowledge of pharmacy and of the sciences intimately related. It includes a careful exposition of the principles of pharmacy; ample practice in pharmaceutical manipulations; the manufacture of many typical galenical preparations, and drill in the compounding of prescriptions; as well as a thorough consideration of theoretical chemistry; laboratory practice in qualitative and quantitative analysis, especially with reference to the identification and valuation of drugs and medicines, and a presentation of the salient facts of inorganic and organic chemistry, from a pharmaceutical standpoint; also such instruction in botany and microscopy as may best prepare the student for the ensuing study of the various crude drugs, these being considered with reference to their identification, purity, chemical constituents, physiological effects and therapeutic uses.

At a meeting of the School of Pharmacy Committee of the University Trustees, together with the Faculty of the School, which meeting was held September 2nd, 1897, it was decided to recommend to the Board of Trustees of the University that the course for the degree of Pharmaceutical Chemist be lengthened so as to require a school-year of post-graduate work after the completion, by the student, of the two year course. It was further recommended that the advanced work consist chiefly of chemistry and be of such nature as to qualify the student for expert work, in this line, such as might fall within the province of the pharmacist to perform. A third recommendation was that a special laboratory and equipment be provided for this course. These recommendations were adopted by the Board of Trustees at the meeting held September 21st, 1897, and it is expected that the extended course will be put in operation during the coming year.

The diploma of this school, conferring the degree of Graduate in Pharmacy, entitles the recipient to registration in twenty-two states of the Union, but it does not do so in our own State, the pharmacy law of which recognizes no diploma whatever and obliges all candidates for registration to come before the State Board of Pharmacy for examination. While a graduate of any first-class school of pharmacy should not fear an examination before any state board, yet it would seem inconsistent that the State, through its pharmacy law, should not recognize the instruction given under its own supervision.

Another feature of our pharmacy law, and one that is unjust to the schools of pharmacy generally, is that the time spent by the student at a school of pharmacy is not recognized as "experience." For this reason, the young man who has worked in a drug store for four years and who has not attended a school of pharmacy, is eligible for examination before the Board of Pharmacy, while the young man who has been engaged in pharmaceutical practice for the same period, but who has devoted a part of his time to attendance at a school of pharmacy, is not eligible and becomes so only when he has had four years of actual drug store experience. Evidently, some provision should be made, such as the pharmacy laws of many other states contain, which would provide that the time spent at a school of pharmacy should count as "experience," with the provision, preferably, that such credit should not exceed two years. As the law stands at present, a young man is temporarily disqualified for registration because he has attended a school of pharmacy.

A feature of the course at this school, is that opportunities are provided for students to earn their living expenses while attending, by devoting a portion of their time to drug store practice. The facilities in this respect afforded by a large city, enable many young men to gain an education in their chosen profession, who would not otherwise, for financial reasons, be able to do so.

The indications for the coming session point to a larger attendance, and with the prospective establishment of the post-graduate course and the additions to the equipment of the school, the prospects for the future are bright.

Excepting only the physician, there is no person who holds such a responsible position, in regard to the public health, as does the pharmacist. To fit him for the assumption of this responsibility, a special training, such as is afforded by the best schools of pharmacy, is necessary. The scope of his training must be continually extended to keep pace with new duties and increasing demands upon the pharmacist's knowledge and skill. The University is to be commended for its efforts toward providing better facilities for the acquisition of this knowledge and skill and toward the elevation of the standard by which these attainments are judged.

Respectfully submitted,

W. B. DAY.

Secretary of the Faculty.

THE SCHOOL OF MEDICINE.

To the Trustees of the University of Illinois.

GENTLEMEN:—Since the absorption of the College of Physicians and Surgeons of Chicago by the University, the number of students attending that institution has increased from 308 to 510.

The comparative thoroughness of its curriculum is set forth in the recently issued decennial report of the Minnesota State Board of Examiners. In Minnesota all applicants for license to practice medicine are required to pass the examination of the State Board, no matter how many diplomas they have.

Of the graduates of the School of Medicine of the University of Illinois who have taken this examination, fifteen per cent have failed; whereas, twenty-two per cent of the graduates of the Northwestern University Medical School and thirty and one-half of the graduates of the Rush Medical College, subjected to the same ordeal, failed.

Our School of Medicine includes a well organized and well sustained Medical Society, under the control of students, which meets bi-weekly, and has an average attendance of forty.

The Quine Library now contains 2,500 standard medical treatises and a wealth of periodical medical literature. It is believed to be the most active medical library in Chicago, the average daily attendance being 85.

Co-education in medicine, a problem that was regarded with much anxiety by the medical faculty, has proved a gratifying success. There are now thirty ladies in the classes and they sustain themselves very creditably in every department of work. Separate parlor and dressing rooms are provided for them and they are treated with every consideration by the young gentlemen of the school. They have just organized a Greek letter society.

The College Gymnasium is, as yet, somewhat primitive as to quarters and equipment, but it is none the less appreciated and used by the students of both sexes. It is the only medical school gymnasium in Chicago. Bath rooms are connected with it.

The Y. M. C. A. parlors in the school are comfortable and commodious and not equaled by any like institution in the Mississippi Valley.

The College Museum is growing vigorously and the equipment of the school is rapidly enlarging in every direction.

The enthusiasm of students and harmonious coöperation of teachers make a cheering prophecy of the future of the school. A little more than one-third of the students have degrees on admission, and the number of these has noticeably increased of late years. It is expected that arrangements will be made before the opening of another session, whereby the entrance requirements of the School of Medicine will be exactly the same as those of other departments of the University, and students may obtain a degree in science and a degree in medicine, on six years of work—three of which shall be done in Urbana and three in Chicago.

The Football Team is the champion medical team of this section of the country.

The College Glee and Mandolin Club recently organized, is in the throes of preparation for its first public performance in Studebaker Hall, February 15th, proximo.

For competitive examinations, for hospital appointments, participated in by the students of all the medical colleges of Chicago, the students of the School of Medicine of the University of Illinois may be confidently depended on to sustain the credit of their *alma mater*.

Respectfully submitted,

W. E. QUINE, *Dean*.

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