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062

THESIS

Comparative Cost of Dishes
For Schools and Institutions
OF Moderate Means

Marguerite A. Nolan
Mabel C. Severance

1902

THESIS

XX

120

662

(cost + standard of living)

T H E S I S

EXPERIMENTS FOR DETERMINING THE COMPARATIVE
COST OF DISHES SUITABLE FOR
SCHOOLS AND INSTITUTIONS
OF MODERATE MEANS.

B y,

Marguerite A. Nolan

and

Mabel C. Severance.

Michigan Agricultural College.

1 9 0 2.

**Experiments for Determining the Comparative
Cost of Dishes Suitable for Schools and Institutions
of Moderate Means.**

The following experiments were done in the kitchen of the Women's Building at the Michigan Agricultural College in the Winter term of 1902, Miss Belle C. Crowe being manager and Mrs. Della Divine being cook of the Club.

The average number of persons fed was 115. The board was declared to have cost \$1.70 per week. Waiting on table was unpaid service by the students. The paid staff for cooking averaged five and one third persons. The white bread was bought, and the laundry was done outside.

The expenses not borne by the Club were:- rent, electricity for griddles, steam for part of the cooking and heating the steam table, and hot water.

Herewith is given a sample menu for one day, which fairly represents the bill of fare.

[illegible]

1. The first of the following is a list of the names of the persons who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation.

— *«L'Espresso»*, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676,

• *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1973).

B R E A K F A S T.

Wheatlet.

Creamed Chipped Beef. Zwiebach.

Coffee. Cream. Cocoa.

D I N N E R.

Roast Beef. Bread Stuffing.

Brown Gravy. Gherkins.

Potatoes, mashed. Creamed Cabbage.

Steamed Fruit Pudding.

Lemon Sauce.

S U P P E R.

Scalloped Macaroni and Cheese.

Rolls. Spiced Apple.

Graham Crackers. Bananas and Oranges.

Milk. Tea.

• *Journal of the American Academy of Child and Adolescent Psychiatry*, 1997, 36(12):1331-1339

• *Chlorophyll a* (Chl *a*) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl *a* is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy in the form of ATP and NADPH. It is found in the thylakoid membranes of chloroplasts.

• *Journal of the American Medical Association* 277:1033-1034, 1997

Journal of Management Education 30(6)p. 789-804

• *Journal of the American Academy of Child and Adolescent Psychiatry*, 1997, 36, 10, 1123-1130.

1. The first group of respondents (n = 10) was asked to identify the most important factors influencing their decision to use a particular technology. The factors identified were: ease of use, cost, reliability, security, and compatibility. The second group (n = 10) was asked to identify the most important factors influencing their decision to use a particular technology. The factors identified were: ease of use, cost, reliability, security, and compatibility. The third group (n = 10) was asked to identify the most important factors influencing their decision to use a particular technology. The factors identified were: ease of use, cost, reliability, security, and compatibility.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. *Chlorophyll a* (Chl *a*)

Journal of Management Studies, 19(1), 67-80.

• *Journal of the American Medical Association*, 1997; 277: 1025-1028

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 101-UV spectrophotometer. The concentration of chlorophyll was expressed in $\mu\text{g mL}^{-1}$ of the sample.

Exp.	Name of Dish.	Price of ingre- dients.	Cost of ingre- dients.	Total cost of dish.
1	Farina(breakfast food)	2.65 per cwt.	.085	.085
2	Vitos	1.32 dz.pkg.	.22	.22
3	Wheatlet	1.40	.276	.276
4	Cream of wheat	1.59	.318	.318
5	Shredded wheat biscuit	.11 pkg.	1.054	1.054
6	Potatoes(boiled)	.80 bu.	.603	.603
7	" (mashed, with butter and milk) (butter) (milk)	.80 .20# 1.50 cwt.	.566) .10) .06)	.726
8	Creamed cabbage cabbage white sauce	.10 dz.	.40) .379)	.779
9	Creamed onions onions sauce	.80 bu.	.40) .425)	.825
10	Sausage	.09 #	.86	.86
11	Shredded beef beef sauce	.14	1.216) .346)	1.562
12	Roast pork	.10	3.75	3.75
13	Roast beef	.11	4.455	4.455
14	Farina pudding Farina dates sugar	2.65 cwt. .07 # .055	.076) .236) .11)	.422
15	Steamed peach pudding peaches Flour mills B.P.	.30 can 2.20 cwt. 1.50 cwt. .321 #	.90 .133 .071 .10	1.204

Amt. consumed.	Cost of consumed.	Persons served.	Cost per 100 persons.	Remarks.
3 1/5#	.085	78	.109	Bought in bulk.
3 3/4	.22	71	.309	These cereals were cooked on the range, not by steam.
4.59#	.276	81	.34	
4 1/20	.318	73	.40	
115 biscuit	1.054	82	1.28	
22 1/2#	.413	106	.40	
31 7/8	.648	110	.60	
21 1/2#	.626	35	.74	
23 1/8	.663	32	.80	
7 3/8	.663	85	.78	
		71	2.20	Peef in cream sauce.
15 1/2#	3.08	85	3.60	
13 1/4	3.136	82	3.80	Boiled on the range.
22 1/2	.398	93	.43	
21 15/16	1.035	104	1.00	

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Exp.	Name of Dish.	Price of ingre- dients.	Cost of ingre- dients.	Total cost of dish.
16	Cream of rice pudding.			
	rice	.07 lb.	.219)	
	sugar	.055	.151)	
	milk	1.50 cwt.	.574)	.944
17	Suet pudding			
	flour	2.20 cwt.)	.14	
	milk	1.50)	.068	
	soda	.05 #)	.013	
	suet	.05)	.006	
	allspice	.20)	.013	
	cinnamon	.25)	.031	
	nutmeg	.05)	.002	
	breadcrumbs	.04)	.093	
	molasses	.40)	.259	
	figs	.14)	.149	
	citron	.13)	.098	
	raisins	.11)	.206	
	sugar	.055)	.072	1.25
18	Coffee cream gelatine	.40#)	.20	
	milk	1.50 cwt.)	.09	
	coffee	.22#)	.041	
	cream	.10)	.531	
	sugar	.055)	.234	1.096
19	Cracker pudding			
	sugar	.055#)	.165	
	crackers	.12)	.513	
	milk	1.50 cwt.)	.39	
	eggs	.20 dz.)	.50	1.573
	Sauce for same			
	cream	.10 #)	.25	
	milk	1.50 cwt.)	.038	.238
20	Bread pudding			
	bread	.04 #)	.20	
	dates	.07)	.263	
	sugar	.055)	.275	1.70
	eggs	.20 dz.)	.50	
	milk	1.50 cwt.)	.462	
21	Blueberry pudding			
	blueberries	.10 can)	.75	
	flour	2.20 cwt.)	.143	
	milk	1.50)	.083	
	B. powder	.32#)	.16	
	butter	.20)	.26	
	sugar	.055)	.22	1.619

Amt. consumed.	Cost of consumed.	Persons served.	Cost per 100 persons.	Remarks.
36 1/8	.337	97	.86	Baked in oven.
13 7/32	.875	100	.875	Steamed.
20 9/16	.937	82	1.14	
29 15/16	1.296	110	1.18	Baked in oven.
42 1/2	1.531	96	1.50	Baked in oven.
24 7/8	1.214		1.21	Baked in oven.

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Exp.	Name of Dish.	Price of ingredients.	Cost of ingredients.	Total cost of dish
22	Dessert			
	ginger	.31 $\frac{1}{8}$ #	.276	
	nuts	.40	.35	
	candy	.25	.22	
	wafers	.14	.245	
	coffee	.22	.15	1.531
	sugar	.055	.10	
	cream	.10	.24	
23	Peach pie			
	flour	2.20 cwt.	.198	
	lard	.11 #	.495	
	salt	.70 cwt.	.001	
	peaches	.30 can	.675	
	sugar	.055 #	.275	1.644
24	Mince pie			
	lard	.11 #	.66	
	flour	2.20 cwt.	.245	
	salt	.70 cwt.	.001	
	mincemeat	.085 #	.85	
	sugar	.055	.069	
	cider	.25 qt.	.063	1.883
25	Blueberry pie			
	lard	.11 #	.605	
	flour	2.20 cwt.	.27	
	salt	.70	.001	
	sugar	.055 #	.254	
	blueberries	.10 qt.	.967	2.097
26	Macaroni			
	tomatoes	.09 can	.18	
	macaroni	.10 box	.60	
	flour	2.20 cwt.	.019	
	butter	.20 #	.25	1.049
27	Scalloped oysters			
	oysters	1.15 gal.	4.60	
	crackers	.06 #	.145	
	butter	.20	.55	5.345
28	Baking powder biscuit			
	flour	2.20 cwt.	.294	
	oleomargarine	.16 #	.40	
	B. powder	.32	.16	
	milk	1.50 cwt.	.024	.873

Art. consumed.	Cost of consumed.	Persons served.	Cost per 100 persons.	Remarks.
8 9/16 ¹¹	1.561	83	1.90	
33.97	1.401	86	1.60	
32 5/8	1.281	78	1.46	
29 72/125	1.407	80	1.80	
12 1/4	.644	70	.792	
32 1/2	4.57	100	4.57	
17 11/16	.708	74	1.00	

Exp.	Name of Dish.	Price of ingre- dients.	Cost of ingre- dients.	Total cost of dish.
29	Bread			
	(dinner)	.04 #	.28	.28
	(supper)	.04	.32	.32
30	Butter			
	(breakfast)	.20 #	.625	.625
	(dinner)	.20	.50	.50
	(supper)	.20	.625	.625
31	Fruit (whole)			
	oranges	.25 dz.	1.27	
	bananas	.15	.80	2.07
32	Fruit(canned)			
	pineapple	.17 can	1.19	
	peaches	1.45 dz.can.	.242	1.432
33	Wafers			
	Aunt Samantha's	.10 #	.282	
	Saltines	.14	.07	.352
34	Cocoa	.39 #	.345	.345
35	Chocolate	.265 #	.338	.338
36	Pickles			
	(gherkins)	1.25 gal.	.682	.682

Amt. consumed.	Cost of consumed.	Persons served.	Cost per 100 persons.	Remarks.
6 7/8#	.275	75	.36	More than half of the butter served at din- ner was brought back on butter chips.
8	.32	78	.40	
3 1/8	.625	57	1.09	
2 1/2	.50	75	.667	
3 1/8	.625	78	.80	
5 1/2 dz.				
6 1/3 dz.	2.07	97	2.13	
3 13/16	1.103	78	1.40	
3,5/16	.352	73	.40	
12 qts.	.201	32	.60	
4 1/2 qts.	.152	25	.608	
- 3 #	.682	84	.80	

1. The first part of the document is a list of names and their corresponding addresses.

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