

**Agricultural Department.**  
Farm Work for December

The comparative leisure of winter affords valuable time for learning the science of agriculture. Mere book knowledge will never make a good farmer, neither will mere working on a farm; knowledge and practice must go together to secure the best results. The study of agricultural works will not only add to the stock of practical ideas, but will develop and cultivate the man himself. We urge that all the animals on the farm be well cared for during the inclement season, but are yet more solicitous that the cultivator does not neglect himself. Mind-power is superior to horse power, or steam power on the farm or elsewhere.

**Accounts**—Settle with all debtors and creditors. At least let accounts be made up, and a balance agreed upon, if debts can not be canceled.

**Buildings**—Save feed and fuel by excluding wind and storms, but provide for ample ventilation for animals.

**Cattle**—Keep under shelter, feed liberally, with frequent change of diet, and allow free access of water, give plenty of bedding, and keep their skins in good condition by frequent use of the card and brush.

**Cellars**—Keep out frost and rats; sort over vegetables that may be decaying.

**Fencing materials**—Collect from woods, and from swamps when they freeze, and prepare rails and posts.

**Fodder Racks or Boxes**—Provide them for all stock.

**Hogs**—Complete fattening and kill as early as possible. Give warm food to store hogs, and allow plenty of litter.

**Horses**—Keep in warm, tight, well-ventilated stables. Feed well. Blanket when needed. Keep sharp shod. Give sufficient exercise; use card and brush often.

**Lumber and Timber**—Draw from the forest to the mill while sleighing is good.

**Manures**—Keep all the factories employed. Save liquid manures with absorbents of muck or waste litter. Much of next year's profit will depend upon the care and skill now bestowed upon laying in a good stock of good manure.

**Poultry**—Keep in warm quarters, feed liberally, supply with fresh meat, lime, and gravel, and warm food.

**Sheep**—Keep separated from other stock. Shelter from storms, in well-ventilated sheds. Give roots cut fine with hay, and a little oats or corn. Salt regular, and allow plenty of water.

**Tools**—Keep all under cover; repair such as need it.

**Winter Grain**—Keep surface drains open, and allow no stock to graze or trample the fields.

**Wood**—Cut and pile ready to draw when snow falls. Select dry and unthrifty trees, and thin out undergrowth.

If any pruning must be done before July (the season), let it be done now. Not only is there more time for the work, but the out surfaces will harden over before the starting of sap in Spring.

Remember that fruit trees repay expense for manure quite as well as any other crop, and look out now, and through the Winter, for a good supply. The lime, hair and leather scrapings from tanneries, waste wool from the clothiers, spent tan, leached ashes, oyster shells, muck, canal sediments, etc., are all worth carting home, some of them may well be purchased.

In snowy countries, care will be needed to guard against mice which often gnaw off the bark of small trees near the ground.—Trapping drows each fresh fall of snow about the trees is a good preventive. Shake the newly fallen snow from evergreen and other trees to prevent its weight from splitting down the branches.—*American Agriculturist.*

**PRESERVING POTATOES BY BURYING THEM.**—A correspondent of the *Scottish Farmer* writes to that journal as follows:—Your notice of the conservative principle in seeds buried at a depth beyond the action of the air and moisture brings to my recollection a case of potatoes being buried for two years, six feet under the surface, at the end of which they were taken up quite sound and ready for use. The case I refer to was the result of accident, and happened thus: I had an old ice well of the ordinary description which I abandoned, when I built one of double timber on the surface, after the American fashion.—My gardener used for several years the old well as a potato store. It happened three years ago that the roof fell in and buried several hundred weight of potatoes, which, as we had plenty, was not cared for at that time. Last year we required stores for a purpose, and had those forming the sides and roof of the ice-house dug out, when, to our astonishment we found almost the whole of the potatoes as sound as those of the same year's crop. I mention this as it may be turned to an account in seasons when we have, as we had last year, a surplus crop, that by burying them deep enough, and in a dry place, we might secure ourselves against a short crop, as in all probability will be the case this year on account of the prevailing disease. In mentioning this to a friend learned in such matters, he tells me that potatoes buried one foot deep produces shoots at the end of spring; at the depth of two feet they appear about the middle of summer; at three feet in depth they appear very short and never come to the surface; and between three and five feet they cease to vegetate. He further informs me that he has buried potatoes in his garden at the depth of three and a half feet, which were not removed until after one or two years, when they were found quite sound, and possessed their original freshness, firmness, goodness and taste.

**TO MAKE STARCH.**—Dissolve as much starch as will be required in a very small quantity of cold water; then pour boiling water on it till it is of the right consistency, and let it boil once or twice.

In mixing starch, put a lump of sugar in it to prevent it from sticking to the iron. Stirring the starch for a minute with a sperm candle improves it when it is wanted for shirt bosoms or collars.

The fellow who took offence has not yet returned it.

If our clothes are not well cut, we are very apt to be cut ourselves.

Money is nothing in itself; it is useful only when it departs from us.

It is easier for the generous to forgive than for the offender to ask it.

**Miscellaneous.**  
NEW READY!  
**BARTLETT'S NEW IRON WORKS**  
TOWANDA, PENNA.

THE Subscriber begs leave to call the attention of the public to the fact that he has enlarged his motive power and purchased and set up additional machinery and employed a larger number of workmen than ever, so that he is now prepared to execute orders for Castings or Machinery with promptitude.

He has at his works all the PATTERNS in use by the late firm of Wm. H. Phillips & Son of Elmira, N. Y., and has also added to these, patterns of various kinds.—**1864: 1865: 1866: 1867: 1868: 1869: 1870: 1871: 1872: 1873: 1874: 1875: 1876: 1877: 1878: 1879: 1880: 1881: 1882: 1883: 1884: 1885: 1886: 1887: 1888: 1889: 1890: 1891: 1892: 1893: 1894: 1895: 1896: 1897: 1898: 1899: 1900: 1901: 1902: 1903: 1904: 1905: 1906: 1907: 1908: 1909: 1910: 1911: 1912: 1913: 1914: 1915: 1916: 1917: 1918: 1919: 1920: 1921: 1922: 1923: 1924: 1925: 1926: 1927: 1928: 1929: 1930: 1931: 1932: 1933: 1934: 1935: 1936: 1937: 1938: 1939: 1940: 1941: 1942: 1943: 1944: 1945: 1946: 1947: 1948: 1949: 1950: 1951: 1952: 1953: 1954: 1955: 1956: 1957: 1958: 1959: 1960: 1961: 1962: 1963: 1964: 1965: 1966: 1967: 1968: 1969: 1970: 1971: 1972: 1973: 1974: 1975: 1976: 1977: 1978: 1979: 1980: 1981: 1982: 1983: 1984: 1985: 1986: 1987: 1988: 1989: 1990: 1991: 1992: 1993: 1994: 1995: 1996: 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: 2677: 2678: 2679: 2680: 2681: 2682: 2683: 2684: 2685: 2686: 2687: 2688: 2689: 2690: 2691: 2692: 2693: 2694: 2695: 2696: 2697: 2698: 2699: 2700: 2701: 2702: 2703: 2704: 2705: 2706: 2707: 2708: 2709: 2710: 2711: 2712: 2713: 2714: 2715: 2716: 2717: 2718: 2719: 2720: 2721: 2722: 2723: 2724: 2725: 2726: 2727: 2728: 2729: 2730: 2731: 2732: 2733: 2734: 2735: 2736: 2737: 2738: 2739: 2740: 2741: 2742: 2743: 2744: 2745: 2746: 2747: 2748: 2749: 2750: 2751: 2752: 2753: 2754: 2755: 2756: 2757: 2758: 2759: 2760: 2761: 2762: 2763: 2764: 2765: 2766: 2767: 2768: 2769: 2770: 2771: 2772: 2773: 2774: 2775: 2776: 2777: 2778: 2779: 2780: 2781: 2782: 2783: 2784: 2785: 2786: 2787: 2788: 2789: 2790: 2791: 2792: 2793: 2794: 2795: 2796: 2797: 2798: 2799: 2800: 2801: 2802: 2803: 2804: 2805: 2806: 2807: 2808: 2809: 2810: 2811: 2812: 2813: 2814: 2815: 2816: 2817: 2818: 2819: 2820: 2821: 2822: 2823: 2824: 2825: 2826: 2827: 2828: 2829: 2830: 2831: 2832: 2833: 2834: 2835: 2836: 2837: 2838: 2839: 2840: 2841: 2842: 2843: 2844: 2845: 2846: 2847: 2848: 2849: 2850: 2851: 2852: 2853: 2854: 2855: 2856: 2857: 2858: 2859: 2860: 2861: 2862: 2863: 2864: 2865: 2866: 2867: 2868: 2869: 2870: 2871: 2872: 2873: 2874: 2875: 2876: 2877: 2878: 2879: 2880: 2881: 2882: 2883: 2884: 2885: 2886: 2887: 2888: 2889: 2890: 2891: 2892: 2893: 2894: 2895: 2896: 2897: 2898: 2899: 2900: 2901: 2902: 2903: 2904: 2905: 2906: 2907: 2908: 2909: 2910: 2911: 2912: 2913: 2914: 2915: 2916: 2917: 2918: 2919: 2920: 2921: 2922: 2923: 2924: 2925: 2926: 2927: 2928: 2929: 2930: 2931: 2932: 2933: 2934: 2935: 2936: 2937: 2938: 2939: 2940: 2941: 2942: 2943: 2944: 2945: 2946: 2947: 2948: 2949: 2950: 2951: 2952: 2953: 2954: 2955: 2956: 2957: 2958: 2959: 2960: 2961: 2962: 2963: 2964: 2965: 2966: 2967: 2968: 2969: 2970: 2971: 2972: 2973: 2974: 2975: 2976: 2977: 2978: 2979: 2980: 2981: 2982: 2983: 2984: 2985: 2986: 2987: 2988: 2989: 2990: 2991: 2992: 2993: 2994: 2995: 2996: 2997: 2998: 2999: 3000: 3001: 3002: 3003: 3004: 3005: 3006: 3007: 3008: 3009: 3010: 3011: 3012: 3013: 3014: 3015: 3016: 3017: 3018: 3019: 3020: 3021: 3022: 3023: 3024: 3025: 3026: 3027: 3028: 3029: 3030: 3031: 3032: 3033: 3034: 3035: 3036: 3037: 3038: 3039: 3040: 3041: 3042: 3043: 3044: 3045: 3046: 3047: 3048: 3049: 3050: 3051: 3052: 3053: 3054: 3055: 3056: 3057: 3058: 3059: 3060: 3061: 3062: 3063: 3064: 3065: 3066: 3067: 3068: 3069: 3070: 3071: 3072: 3073: 3074: 3075: 3076: 3077: 3078: 3079: 3080: 3081: 3082: 3083: 3084: 3085: 3086: 3087: 3088: 3089: 3090: 3091: 3092: 3093: 3094: 3095: 3096: 3097: 3098: 3099: 3100: 3101: 3102: 3103: 3104: 3105: 3106: 3107: 3108: 3109: 3110: 3111: 3112: 3113: 3114: 3115: 3116: 3117: 3118: 3119: 3120: 3121: 3122: 3123: 3124: 3125: 3126: 3127: 3128: 3129: 3130: 3131: 3132: 3133: 3134: 3135: 3136: 3137: 3138: 3139: 3140: 3141: 3142: 3143: 3144: 3145: 3146: 3147: 3148: 3149: 3150: 3151: 3152: 3153: 3154: 3155: 3156: 3157: 3158: 3159: 3160: 3161: 3162: 3163: 3164: 3165: 3166: 3167: 3168: 3169: 3170: 3171: 3172: 3173: 3174: 3175: 3176: 3177: 3178: 3179: 3180: 3181: 3182: 3183: 3184: 3185: 3186: 3187: 3188: 3189: 3190: 3191: 3192: 3193: 3194: 3195: 3196: 3197: 3198: 3199: 3200: 3201: 3202: 3203: 3204: 3205: 3206: 3207: 3208: 3209: 3210: 3211: 3212: 3213: 3214: 3215: 3216: 3217: 3218: 3219: 3220: 3221: 3222: 3223: 3224: 3225: 3226: 3227: 3228: 3229: 3230: 3231: 3232: 3233: 3234: 3235: 3236: 3237: 3238: 3239: 3240: 3241: 3242: 3243: 3244: 3245: 3246: 3247: 3248: 3249: 3250: 3251: 3252: 3253: 3254: 3255: 3256: 3257: 3258: 3259: 3260: 3261: 3262: 3263: 3264: 3265: 3266: 3267: 3268: 3269: 3270: 3271: 3272: 3273: 3274: 3275: 3276: 3277: 3278: 3279: 3280: 3281: 3282: 3283: 3284: 3285: 3286: 3287: 3288: 3289: 3290: 3291: 3292: 3293: 3294: 3295: 3296: 3297: 3298: 3299: 3300: 3301: 3302: 3303: 3304: 3305: 3306: 3307: 3308: 3309: 3310: 3311: 3312: 3313: 3314: 3315: 3316: 3317: 3318: 3319: 3320: 3321: 3322: 3323: 3324: 3325: 3326: 3327: 3328: 3329: 3330: 3331: 3332: 3333: 3334: 3335: 3336: 3337: 3338: 3339: 3340: 3341: 3342: 3343: 3344: 3345: 3346: 3347: 3348: 3349: 3350: 3351: 3352: 3353: 3354: 3355: 3356: 3357: 3358: 3359: 3360: 3361: 3362: 3363: 3364: 3365: 3366: 3367: 3368: 3369: 3370: 3371: 3372: 3373: 3374: 3375: 3376: 3377: 3378: 3379: 3380: 3381: 3382: 3383: 3384: 3385: 3386: 3387: 3388: 3389: 3390: 3391: 3392: 3393: 3394: 3395: 3396: 3397: 3398: 3399: 3400: 3401: 3402: 3403: 3404: 3405: 3406: 3407: 3408: 3409: 3410: 3411: 3412: 3413: 3414: 3415: 3416: 3417: 3418: 3419: 3420: 3421: 3422: 3423: 3424: 3425: 3426: 3427: 3428: 3429: 3430: 3431: 3432: 3433: 3434: 3435: 3436: 3437: 3438: 3439: 3440: 3441: 3442: 3443: 3444: 3445: 3446: 3447: 3448: 3449: 3450: 3451: 3452: 3453: 3454: 3455: 3456: 3457: 3458: 3459: 3460: 3461: 3462: 3463: 3464: 3465: 3466: 3467: 3468: 3469: 3470: 3471: 3472: 3473: 3474: 3475: 3476: 3477: 3478: 3479: 3480: 3481: 3482: 3483: 3484: 3485: 3486: 3487: 3488: 3489: 3490: 3491: 3492: 3493: 3494: 3495: 3496: 3497: 3498: 3499: 3500: 3501: 3502: 3503: 3504: 3505: 3506: 3507: 3508: 3509: 3510: 3511: 3512: 3513: 3514:**