

Poetry.

For the Willamette Farmer.

GOOD AND ILL.

Amid the fleeting years  
Of this inconstant life,  
It certainly appears  
Some part is marred by strife.  
Let each one who is getting  
His full round share of trouble,  
Dispense with sighs and fretting,  
Which serve to make it double.  
Would you enjoy true peace,  
You must experience pain;  
It will your joys increase  
When it returns again.

So bravely bear to-day  
Your heavy load of sorrow,  
And trust, and hope, and pray  
That joy will come to-morrow.

S. B. ROCKWELL,  
Middlebury, Vermont, April, 1872.

Scientific.

**THE EARTH'S ROTATION.**—There are few, if any, schools or institutions of learning in the land, where the course of instruction comprises astronomy, in which the students of that science are not taught that there is no evidence whatever that the earth's motion around its axis was ever slower or faster than at the present time. In a very interesting and instructive article, entitled "Our Chief Timepiece losing Time," Mr. Proctor combats this proposition. "It is no idle dream," he says, "but a matter of absolute certainty, that, though slowly, still very surely, our terrestrial globe is losing its rotation movement." This fact has been ascertained by a comparison of the times when ancient eclipses actually occurred with the times when they ought to have occurred, if in former ages the moon moved at the same rate it does now. "The length of a day," says Mr. Proctor, "is now more by about one eighty-fourth part of a second than it was two thousand years ago. At this rate of change our day would merge into a lunar month in the course of thirty-six thousand million years. But, after a while, the change will take place more slowly, and some trillion or so of years will elapse before the full change is effected."

**AN ASTRONOMICAL PROBLEM.**—One of the greatest unsolved problems in astronomy in our era is the combined system of movements of the stars of our own sidereal system. It is worthy of the application of the highest talents and of the largest learning, and it seems to invite especially the devotion of young men who may make it their life-long labor. There are at least four aids and encouragements to undertake the work; first, the form of our sidereal system, which is a ring with an interior disk-like stratum, and both the ring and the stratum lie in the same plane; secondly, our position in the system, which as already shown, is near the center; thirdly, the origin of the system and its motions, according to the nebular theory; fourthly, the present calculable influence of the stars on one another, such particularly whose distances are known.

The aid we may receive in the solution of this great problem, from our position near the center of our sidereal system, may be estimated by our relation to our solar system. How much more simple would the motions of the planets appear from a central point, like the sun, than from a half-way position, as on our earth! Knowing, therefore, our stand point in our sidereal system, we may put together the motions of the fixed stars with the more confidence and hope of final success in unraveling the great mystery of their intricate dance.—Ennis.

**ACTION OF WATER.**—Of all the agents which are now in process of acting, or which have acted in past periods of time, upon the surface of the earth, none has produced mightier changes than ice. Water in all its forms, is the great graving tool by which have been carved all those inequalities of the earth's surface

which constitute what we call "scenery." The running stream, the cataract, the waves of ocean, even the falling drop of rain, all leave their mark upon the land. There is no cliff or precipice, no line of crags, no ravine or gorge, which does not owe some, or all, of its beauties to the action of water in motion. Every grain of sand betrays the ceaseless working of this potent force; we mark its action in every rounded pebble; and the hugest mountain mass bears on its rugged face the ineffaceable traces of its long and ineffectual conflict with this destroying power.

Horticultural.

PLANTING YOUNG TREES.

We advise people most decidedly to plant young trees in orchards and gardens for the following reasons:

1. Young trees cost less throughout, at the nursery, in freight charges, also in handling and planting.
2. They are surer to grow, having, in proportion to the size of the tops, vastly more and better fibrous roots.
3. Having fewer tops, and almost perfect roots, the small trees become established and grow off vigorously at once. The tops of large trees newly planted are often shaken and blown by the wind until they become leaning and unhealthy, even if they survive.
4. Making most of their growth on the ground where they are to stand, the small trees soon become more stocky and sturdy; every way perfectly adapted to the soil and location, as well as the preference of their owner. Setting young trees, the planter can fashion both bodies and tops exactly to suit his fancy.
5. By setting such young trees, will he lose no time? you ask. To answer truly, I reply, if you give these young trees the first year or two a little extra watching and care, to the amount say of the difference in their cost, you will not lose a day, but get thereby a much handsomer and more valuable orchard.
6. Or, if not ready to plant out in the orchard permanently this year; or, if about to open in a year or two a new farm, as for a son or daughter—why not plant yearlings or root grafts, growing them yourself in the garden with but trifling cost? In the meantime, your children can study and learn all about them as well as about colts or pigs. Root grafts are set deep, in mellow soil, with dirt firm about roots, dipped just before setting in "gROUT," i. e., mud and water, with the top of graft or scion two inches or so above the surface.

Plant one or two-year-old trees, and, unless you plant on a hill-side where soil washes badly, plant only an inch or two deeper than they grow in nursery, as deep planting ruins many trees. The first season in the orchard two or three stakes by each tree may be well enough, and then see that the ground is properly stirred, the cattle, vermin and weeds kept away. Planting a few large trees for immediate bearing and effect, as about cities and towns, is a very different matter. In such cases, expense and risk are no object. For complete homes, surrounding trees as near perfect maturity as possible are imperatively demanded; hence large-sized trees are of prime importance.

Be sure to plant some trees at all hazards. As people in this country fell thousands of trees in the aggregate we claim that they are in duty bound to plant some of the different and as useful varieties in their stead. It has always been a great satisfaction to the old farmer to take a stranger into his orchard and relate the exact time when this or that tree was "set out" by him ten and five years ago. Go and do likewise; you will never regret it, if you plant carefully.—Northwestern Farmer.

**THE FLOWER GARDEN.**—If the flowers have been growing in the ground many years, new soil does wonders. Rich manure makes flow-

ers grow, but they do not always flower well with vigorous growth. If new soil cannot be had, a wheelbarrow of manure to every fifty square feet will be enough. If the garden earth looks gray or yellow, rotten leaves—quite rotten leaves—will improve it. If heavy, add sand. If very sandy, add salt—about half a pint to fifty square feet. If very black or rich from previous years' manurings, use a little lime, about a pint, slacked, to fifty square feet.

If the garden be full of hardy perennial flowers, do not dig it, but use a fork and that not deeply.

Dig garden soil only when the ground is warm and dry. Do not be in a hurry, or you may get behind. When a clod of earth will crush to powder when you tread on it is time to dig—not before.—Gardener's Monthly.

**CALIFORNIA.**—The Sacramento Union figures up the crop of wheat the coming harvest at 28,277,000 bushels. Friedlander estimates 600,000 tons of surplus for export, requiring 800 ships of 2,000 tons burden each to carry it away.

SPECIAL NOTICES.

Remarkable Cure of the Superintendent and Agent of the Guadalupe Mine. "The work goes bravely on." Case No. 6,001—Second Series.

GUADALUPE MINE, NEAR SAN JOSE, CALIF., Aug. 15, 1871. Dr. A. M. Lopez & Co.—For a long time I have been afflicted with Rheumatism in my hands and feet, the pains most of the time being very severe. On the 7th of July I procured some of your UNK WEED REMEDY, and after taking only Three Bottles, find that I am quite restored to health and strength. I have had the rheumatism for eleven (11) years, and think that the success of the "UNK" in curing a disease of so long standing, in so short a time, is very remarkable. As a tonic and appetizer I have never met with anything equal to the UNK WEED REMEDY; during the time I was taking it I gained fifteen (15) pounds in weight. Trusting that this certificate will be useful in inducing others affected as I was to try the "UNK." I remain very truly yours, JAMES T. BROWN, Sup't and Agent Guadalupe Mine.

**Special Notice.** INDICATION is the cause of nine-tenths of all diseases the living machine is subject to! Give tone to the stomach and digestive organs, and you will save more than half in your doctor's bill. Dr. Menzies' Celebrated ILL. BITTERS are recommended by all physicians as DYSPEPTIC and for ALL COMPLAINTS of the LIVER and DIGESTIVE ORGANS. See advertisement in another column.

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Facts Little Known RELATING TO LIFE INSURANCE:

WHERE IS NO FORFEITURE IN the New England Mutual Life Insurance Company, and the following examples prove the fact: PORTLAND, Nov. 15, 1869.—Loss paid on a policy where the premium was six months overdue—A. C. E. Miller, Portland, Oregon. Amount insured, \$5,000. The payment of this claim was attested by Cincinnati Bills, Jacob Mayer, Geo. H. Flanders, M. Seller. COLUSA, Jan. 27, 1870.—Loss paid on a policy where the premium was four months overdue—J. W. Jones, Colusa, Cal.; amount insured, \$10,000. The payment of this claim was attested by Frank Spaulding, W. P. Good, J. M. Wilson, J. W. Good, A. J. Johnson M.D., Henry Peyton. WALNUT CREEK, Jan. 26, 1871.—Loss paid on a policy where the premium was eleven months overdue—Lawrence G. Peel, Walnut Creek, Cal.; amount insured, \$5,000. The payment of this claim was attested by John Siltz, Orris Fales, John J. Kerr, M. Colver, D. F. Majors. COLUSA, Feb. 28, 1871.—Loss paid on a policy where the premium was four months overdue—Jas. H. Caiden, Colusa, Cal.; amount insured, \$3,000. The payment of this claim was attested by W. P. Good, J. W. Good, John Boggs, John Cheney. SAN FRANCISCO, July 25, 1871.—Loss paid on a policy where the premium was two months overdue—J. Levinson, of Boise City, Idaho; amount insured, \$10,000. The payment of this claim was attested by M. S. Barnett, S. A. Gyle, J. Cerf, Rosenthal, Feder & Co. The above claims were paid under the Massachusetts non-forfeiture law. The New England Mutual Life Insurance Company was incorporated in 1853, and is therefore the oldest purely mutual life insurance company in the United States. It has CASH ASSETS OF OVER \$10,000,000, and is the only company on the Pacific coast governed by the Massachusetts non-forfeiture law. DIVIDENDS declared and made available in payments of premiums ANNUALLY.

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