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THE TREE FROG.
 Its Power of Changing Color For Self Protection.

The tree frog is found throughout the eastern United States, ranging west to Kansas and Texas and north into Canada. It inhabits woods and orchards and is found on trees, stone walls, fences and houses. The eggs, which are deposited early in May, are attached singly or in small groups to grass or dead stems at the surface of the water. Early in July the young have passed through the tadpole stage and leave the water. They are green at first, but soon turn to gray or gray and green. The tree frog is largely nocturnal in habits and feeds on insects. It is notable for its many color changes and varies from almost white to green or dark brown or various combinations of green and gray.

THE MUSIC WATER.
 And the Great Things That He Misses In His Defect.

What a puzzle music must be to those unfortunate people, stricken with spiritual ecstacy, to whom the art is no more than so much sound and fury, signifying nothing! They know that to others it constitutes a whole world of experience, yet are themselves excluded from that world by an insuperable barrier. They must take it on faith, as the color blind must take the rainbow and the sunset.

July Official Tide Tables
 Compiled by the U. S. Government for Astoria and Vicinity.

JULY, 1908.				JULY, 1908.			
High Water.		A. M.		P. M.		Low Water.	
Date	h. m.	ft.	h. m.	ft.	Date	h. m.	ft.
Wednesday	1:24	8.1	3:25	7.3	Wednesday	1:56	0.2
Thursday	2:30	7.7	3:52	7.3	Thursday	2:22	0.2
Friday	3:05	7.4	4:20	7.4	Friday	2:57	0.5
Saturday	4:30	6.9	4:50	7.6	Saturday	4:10	0.9
SUNDAY	5:45	6.3	5:38	7.7	SUNDAY	5:10	1.4
Monday	6:34	6.2	6:20	7.8	Monday	6:11	1.9
Tuesday	7:45	6.0	7:10	8.0	Tuesday	7:05	2.4
Wednesday	8:40	5.9	8:08	8.2	Wednesday	8:00	1.8
Thursday	9:18	5.9	9:00	8.3	Thursday	9:00	1.1
Friday	10:12	6.2	9:58	8.8	Friday	10:00	0.4
Saturday	11:12	6.6	10:48	9.0	Saturday	11:00	0.1
SUNDAY	12:12	7.0	11:20	9.0	SUNDAY	12:00	0.1
Monday	13:12	7.3	11:58	9.3	Monday	1:00	0.1
Tuesday	14:12	7.6	12:30	9.7	Tuesday	2:00	0.1
Wednesday	15:11	7.9	1:00	10.0	Wednesday	3:00	0.1
Thursday	16:10	8.1	1:30	10.2	Thursday	4:00	0.1
Friday	17:09	8.4	2:00	10.4	Friday	5:00	0.1
Saturday	18:08	8.6	2:30	10.6	Saturday	6:00	0.1
SUNDAY	19:07	8.8	3:00	10.8	SUNDAY	7:00	0.1
Monday	20:06	9.0	3:30	11.0	Monday	8:00	0.1
Tuesday	21:05	9.2	4:00	11.2	Tuesday	9:00	0.1
Wednesday	22:04	9.4	4:30	11.4	Wednesday	10:00	0.1
Thursday	23:03	9.6	5:00	11.6	Thursday	11:00	0.1
Friday	24:02	9.8	5:30	11.8	Friday	12:00	0.1
Saturday	25:01	10.0	6:00	12.0	Saturday	1:00	0.1
SUNDAY	26:00	10.2	6:30	12.2	SUNDAY	2:00	0.1
Monday	27:00	10.4	7:00	12.4	Monday	3:00	0.1
Tuesday	28:00	10.6	7:30	12.6	Tuesday	4:00	0.1
Wednesday	29:00	10.8	8:00	12.8	Wednesday	5:00	0.1
Thursday	30:00	11.0	8:30	13.0	Thursday	6:00	0.1
Friday	31:00	11.2	9:00	13.2	Friday	7:00	0.1

CAREER OF KETCHELL

Lad Who Recently Won Middle-weight Title a Model Fighter.

HOPES TO MEET BURNS.

Montana Whirlwind Who Clapped Lid on Papke's Championship Aspirations Says His One Ambition is to Fight Tommy For World's Honors.

By THOMAS F. CLARK.
 Stanley Ketchell, the new middle-weight champion, is now the central figure in pugilism. Every fight enthusiast is talking about him; every one wants to know things about him. Many of the middle and heavy weight pugilists are hunting the cyclone celtars in fear of him. The Montana cowboy is surely one of the greatest fighters we have had in years.

Unlike the average fighter, Ketchell was recruited from the byways. His father, H. B. Ketchell, is one of the prosperous furniture manufacturers in Grand Rapids, Mich. Seven years ago, then the idol of his school chums, headstrong and willful, a lad of fourteen, Ketchell rebelled against the strictness of overrigorous intellectual training and determined to take his own affairs in his own hands. He ran away from school, drifted west to Montana in pursuit of his youthful ambition of becoming a cow puncher and acted in this capacity for three years, until he learned to ride.

One day, urged to appear in the squared circle, Ketchell fought and vanquished a man nearly twice his size, thereby taking the first step toward permanently adopting the profession in which he now appears, the greatest drawing card in the country. If opinion may be colored by the interest in his recent fight with Papke. Last summer Ketchell was taken as an easy mark by Joe Thomas, then a candidate for championship honors. Thomas was given a surprise. Ketchell won all the way and had Thomas on the verge of a knockout several times during the bout. Naturally Thomas had his excuses. It was said he was overconfident and was careless. Another meeting was arranged. Thomas was beaten again. Then came Mike ("Twin") Sullivan, a wonder in cleverness. One punch was enough for Michael. Brother Jack Sullivan, a much heavier man, tried to get even for his brother. Johnny took a severe licking for twenty rounds. Then Ketchell tried that rough and tough youngster Billy Papke. He gave the "Illinois Thunderbolt" the worst trouncing of his career.

That Ketchell is a tricky fighter was shown in his contest with Papke. He seems to know every little stunt that gives one man an advantage over another in the prize ring. One of his tricks is that of being in his own corner at the conclusion of a round, which was learned and perfected during the long and trying fights on the Pacific coast. By getting a signal from his seconds when the round is about ended or within fifteen or twenty seconds of its conclusion Ketchell works his way into his own corner. The seconds have the chair all ready to be shoved under the ropes, and all the

fighter has to do is to squat in it. In the meantime his opponent is forced to walk across the ring to his own corner, thus losing possibly eight or ten seconds' rest. In the event of a fight going forty-five rounds it can readily be seen that he would be taking a considerably longer rest than his opponent all the time, besides forcing him to walk a much greater distance.

A remarkable thing about Ketchell is that in nearly every one of his battles he gets home the first wallop and shoots it in with such force that his man is either knocked out or is so hurt that he never fully recovers from the blow during the fight. In the recent bout a right hand cross that landed on Papke's jaw in the first ten seconds of the first round changed the whole complexion of one of the best ring battles ever seen in any country. It is just that fighting forcefulness that Ketchell has always shown since he started to climb the ladder of pugilistic supremacy.

A PRIZED RECORD.

The Original Muster Roll of Captain A. Lincoln's Company.

None of the records of the treasury department is more highly prized than the original muster roll of "Captain A. Lincoln's company" in the handwriting of that famous man himself. It was a voluntary company organized by Lincoln in 1832 to serve in the Black Hawk war. Lincoln as an army officer was the same painstaking, careful and orderly man that he was later as president. He kept the muster rolls of his company himself, and nowhere can a neater and more complete account be found. Although more than seventy-five years old now, the roll is wonderfully well preserved. The paper is of poor quality, but the handwriting is still legible and distinct, not a single error having been made in the copy. The record has been bound together along the edges, and where it has been folded constant handling has done considerable damage to it.

The muster roll is in charge of the auditor for the treasury. Quite a fright was given to that official years ago when it was announced that the roll had disappeared. A thorough search failed to reveal it, and it was given up for lost. Later, however, it was found in the desk formerly occupied by a clerk who had been dismissed. The interesting document is headed: "Muster Roll of Captain A. Lincoln's Company of the Fourth Regiment of Mounted Volunteers, Commanded by Brigadier General Samuel Whitesides. Mustered out of service of the United States at the mouth of Fox river May the 27th, 1832."

A Refuge.

They were speaking of changes in Willowby since Mr. Ransom had left the village, twenty years before, to seek his fortune out west. "Zeb Hobart is enjoying these last years," said the constant resident to the returned wanderer. "He had a pretty exciting life while Ruby lived. Never knew what would happen to him next. But he's all calmed down now."

"Somebody wrote there was talk of his marrying the other sister, Polly," said the westerner. But the response was a violent shake of his old neighbor's head.

"No foundation to that gossip," he asserted, with decision. "Zeb spoke with me about Polly himself. He said to me: 'I won't speak a word against her that's gone,' he said, 'nor her that's left, but there's a man from down below has made me an offer to go with his show as wild beast tamer from hearing the luck I had with them bear's cubs I took. And if Polly looms up too close I shall take up with his offer and get a chance to live out my days in some kind o' peace and security.' Those were his words, and you can make what you want out of 'em."—Youth's Companion.

While the tree frog is common throughout the eastern United States, its purring trill is far more familiar than the frog itself, owing to its retiring habits and powers of resembling in color the object on which it rests. The tree frog is thus one of the best as well as one of the most familiar examples of what is called protective coloration, a resemblance in color between any animal and its surroundings that renders it inconspicuous and enables it to elude the eyes of animals.

Miss Mary Dickerson in "The Frog Book" says: "The color varies greatly at different times and in different conditions. In bright light and high temperature it may be yellowish white with no markings. In a dark, moist or cool place it may be deep stone gray or brown. When the background of color is green his characteristic markings may or may not appear. The changes of color are not rapid, an hour at least seeming necessary to create any radical difference. But it is usually true that the given dress harmonizes so perfectly with the surroundings that the tree frog is as invisible as though he were Perseus in his charmed helmet."

First Aid.

Mr. Figgins, the head of the family, observing that the eaves over his kitchen had become clogged by autumn leaves, climbed a tree standing near the house, with the intention of removing the obstruction. Just as he was about to scoop out a handful of the leaves the dead limb on which he was standing gave way, and he started to fall. Instinctively grasping at other limbs and managing to get his legs round the trunk of the tree, he checked his fall and hung there, head downward, holding on with all his might.

"Sophia!" he yelled. "Come out here, quick!"

Mrs. Figgins, terribly alarmed, came hurrying out.

"Oh, Arthur," she exclaimed, "how did that happen?"

"Never mind how it happened!" he shouted. "Get a chair!"

The chair was brought.

"Now stand up on it."

"Arthur, I'm not strong enough to help you down!"

"I'll get down all right," he panted, "as soon as I can get right end upward. What I want you to do is to take this fountain pen out of the holder in my vest pocket. It's leaking like anything."—Youth's Companion.

Origin of "Robin Adair."

Those who have a leaning to the sentimental side of history will accept the version that the hero of the ballad was a young and handsome Irish surgeon, who, finding his way into London society about the middle of the eighteenth century, was fortunate enough to secure the affections of Lady Caroline Keppel, daughter of William, second earl of Albemarle, and his wife, Lady Anne Lennox, daughter of Charles, first duke of Richmond. The match was naturally looked on with disfavor by the family of the young lady, and it was during a period of temporary separation that Lady Caroline is said to have written the words of "Robin Adair" and set them to the old Irish tune of "Eileen Aroon," which she had learned from her lover. At length, however, love triumphed, and the pair were united on Feb. 22, 1758. Within a few days Adair was appointed inspector general of the military hospitals and, subsequently becoming a favorite of the king, was made surgeon general, king's sergeant surgeon and surgeon of Chelsea hospital. He died in 1790, leaving an only son, who entered the diplomatic service and became the Right Hon. Sir Robert Adair, G. C. B.—London Notes and Queries.

Order of the Golden Horseshoe.

How many persons have ever heard of the Order of the Golden Horseshoe, the first order founded in America?

In 1724, when Virginia extended from the Atlantic into the unknown west, few of her colonists had crossed the Blue Ridge or the Alleghanias. So full of dangers from savages and wild beasts and so full of natural difficulties was the passage of these terrible heights that Governor Spotswood, setting out to discover a pass, looked on the expedition as so hazardous that he took with him a guard of "soldiers, gentlemen and pioneers," armed and carrying provisions. These scaled the pass with great hardships and perils and returned after the governor had cut the name of King George in the rocks on the highest peak.

He then constituted the society, or order, of the Golden Horseshoe. Each man who had scaled this high pass was made a member of it, and to each one he presented a golden horseshoe. On the side was inscribed in Latin, "So It Pleases Him to Cross Mountains."

The province of music is the entire emotional and spiritual life, and the intellect, although a necessary philosophical concept, is no more to be caught by itself than those equally necessary abstractions, the perfect pendulum and the economic man; Science comes nearest to being pure when it takes the mathematical form, but we cannot forget Kepler's spiritual exaltation in contemplation of his laws of planetary motion, and we may also recall what Abt Vogler thought about the whole matter—

"The rest may reason and welcome. 'Tis we musicians know."

What are "the substantial of life?" Science is certainly one of them, but there are at least three others—art, ethics and religion—and if we allow that the one is only here and there touched with emotion the other three are surely suffused with it through and through.

And the relation of music to all three of them as surely needs no argument in its proof, for music is itself an art. It is a potent influence upon character, and it is of the very essence of religion.

But, being as much more than sound as poetry is more than words printed in black ink upon white paper, the character of music as an art is beyond cavil, and any likening of its effect to that of food upon the palate is supremely ridiculous. There are many, indeed, who would go so far as to call it the highest of the arts, holding with Pater that every art "constantly aspires toward the condition of music," which is "the true type or measure of perfected art."

If the philosophers are right when they urge that sympathy is the foundation of the moral life, what more remains to be said in behalf of music as an effective influence upon conduct? The great composer, beyond any other artist, takes us into his intimacy, imparts to us the contagion of his spirit.

What Gluten Is.

What is gluten? Well, spend ten minutes and find out—not all about it, but something about it. Obtain a heaping tablespoonful of white flour. Add a little water to it in a saucer and dough it into a compact ball. Turn on the tap in the sink and let the water drip from your hands as you roll the ball between your palms. The ball will grow less and less, and the water will be white with starch cells held in suspension. In ten minutes, more or less, the water will run clean and clear and you appear to have a nodule of yellow, firm, vegetable gum, which you are tempted to call "pure" gluten. Become a gum chewer for once and keep a-chewing for a couple of hours. At the end of this time the quantity of gluten is less than when you took it from the hydrant. What has happened? You have simply mechanically crushed and broken the gummy mass, exposing the infinitesimally fine starch cells to the moisture of the mouth and the washing out of the raw insoluble starch has continued, just an extension of the sink washing process, with greater mechanical elaboration to expose the entangled starch cell. Now take the piece of gluten to an analytic chemist. When his report comes in you read "starch 15 or 18 or maybe 20 per cent, gluten 85, 82 or 80 per cent," and begin to appreciate for the first time what real gluten is.—Scientific American.

Don't take cold, but if you do, don't fail to take Kemp's Balsam to prevent serious consequences. Nothing else is so valuable in treating coughs and colds.

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COMING CONGRESS

(Continued from page 1)

terrible ravages and that can be fought with as great success. The people have taken alarm, he continued, and are banding together to make war upon it; and Detroit is getting ready to do its share. The Mayor followed up his proclamation by giving to Mrs. W. A. McGraw, the chairman of the committee of women, a huge floral key to the city. Next a great mass meeting was held in the Detroit Opera House. In preparation for the real tagging, the city was directed; some of members of the committee with their associates were placed in charge of each station and substitution; and on Tag Day everybody who came within hailing distance was held up for a contribution. Apparently nobody refused, and every man, woman and child who ventured out on the street was "tagged" in the good of the cause. Something like \$15,000 was turned over to the taggers during the day, and this means that visiting nurses can carry comfort to some of the sick consumptives in their own homes, and that a start, at least, has been made for a sanatorium.

Interest in the International Congress on Tuberculosis is not confined to physicians. Every phase of the scientific study of tuberculosis as it affects human beings will be discussed by physicians, surgeons, and specialists in every field. But equally important places on the program have

been assigned to the men and women who are taking some part in the preventive work that is being carried on along social, economic, or industrial lines. There will also be a section of special interest to veterinarians, and that will discuss tuberculosis in animals and its relation to man.

President Roosevelt has accepted the presidency of the Congress, and the Governors of the States will serve as vice-presidents. Dr. Edward L. Trudeau, of Saranac Lake, is the honorary president. Dr. Trudeau has had tuberculosis himself for many years, and over thirty years ago, when it first became apparent that he had the disease, instead of composing himself to die, he went up to the Adirondacks. The out-door treatment was just beginning to be advocated by German specialists, and Dr. Trudeau tried it on himself. He passed on the gospel of the method to others, and the great movement in this country in recent years, for the out-door treatment of tuberculosis, is generally attributed to his initiative. It has been his inspirational influence in this direction that has won for him the affectionate title of the "Father of the Open Air Treatment in America."

If you will make inquiry it will be a revelation to you how many succumb to kidney or bladder troubles in one form or another. If the patient is not beyond medical aid, Foley's Kidney Cure will cure. It never disappoints. T. F. Laurin, Owl Drug Store.

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