



Small Worlds Around Us

By LYNN M. WATKINS
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Different Moods Demand Various Types Of Wags

Just how much conversational ability does a dog have in its tail? Most dog owners, even human psychologists, readily admit a sense of pleasure or joy is expressed when the tail of a dog wags violently at the appearance of its master. But what else does it say? Is other "tail-talk" possible? One of the best ways of finding out is to literally "go to the dog." With unprejudiced minds and careful attention to "de-tails," some rather remarkable discoveries were made. The field was broad, and the door wide open; other animals besides dogs were found to be performing "tail-talking," too. Many seemed quite expressive with this piece of animal equipment that always follows the animal wherever its owner goes.

The start was made with the most available animal, the dog, a highly trained well-behaved dog that proved to be a willing and cooperative subject. The animal was a confirmed tail wagger. Careful attention by the owner revealed a difference in the tail wagging, the position of the tail, and how it acted in different circumstances.

There was a decided difference in the sweep of the tail; the swing was greater when the dog's master greeted it after a brief absence. Much less, but still a wag prevailed when greeting some other member of the family or a casual acquaintance.

Held Erect
When the dog met another animal on the street, the tail was held stiffly erect; the other dog's tail assumed the position and both animals seemed to be "saying the same thing." This rigid tail position was less pronounced when the dog met one of its friends, a dog that it had conversed with many times previously. The other responded, its tail less rigid, and in a different position.

The "tail between the legs" position, indicative of extreme fright or injury, is well known to even the most casual of human observers. To other dogs, it is another word in tail conversation, a warning to all animals within

tail. This proximity reflex, if that is what it is, is a peculiar tail action that is not easily understood.

A little experiment that anyone who owns a dog can perform will reveal a peculiar reaction. This was observed by accident by a student of dog behavior, and demonstrated times without number. The man was following the dog closely and took hold of the dog's tail; the tail would be jerked away. The man noticed the tail would frequently clude his hand, even when the animal was concentrating all its attention on the terrain in front of its nose. The tail seemed to have eyes of its own.

sight that something is very wrong.

Reflex Action

One of the strangest evidences of tail consciousness would seem to be in the animal's reaction to a nearby object, unseen actually by the dog itself, but seemingly recognized by the animal's

Grants Given for Oregon Programs

Eugene - Grants totaling \$377,091 for one-year training programs in several different fields of study have recently been received by the University of Oregon from the National Science Foundation and the U.S. Public Health Service.

Four grants were received from the National Science Foundation include \$31,500 for \$128,800 for an academic year institute in biology to be conducted at the university for high school and college teachers of biology. The other grants from the Foundation include \$31,500

for an undergraduate science education program, and \$6,510 for an in-service institute in mathematics for secondary school teachers of mathematics.

There were four grants from the U.S. Public Health Service. The largest was for \$99,900 for a graduate training program in molecular biology.

The others from the Public Health Service were \$35,000 for a graduate training program in physiology, \$17,886 for a graduate training program in biochemistry, and \$42,895 for a graduate training program in genetics.

Experiments To Improve Oxygen Content Start

Hornbrook - Experiments directed to learning how to improve the oxygen content of the water being used for the fish facilities at Pacific Power and Light company's Iron Gate hydroelectric project on the Klamath river are in progress east of here at the project.

In a joint program of Pacific Power and the California fish and game department, the investigations will utilize variations of a water tower being erected at the dam.

Jack Hanel, Medford, staff biologist for Pacific Power, reports analysis of the Klamath river water during the past year indicates the fish

facility water could benefit from aeration during certain months.

The PP&L biologist reported studies have shown a deficiency of oxygen in the water at lower levels of the reservoir in the late summer and early fall, relieved at-tributable to algae decomposition.

Experimental Tower

Hanel said an experimental water aeration tower will be erected at the toe of the dam where water is drawn from the Iron Gate reservoir. The site will permit the water to be diverted to the fish holding ponds or to a possible future hatchery for the area.

The PP&L biologist said the California department personnel working on the aeration program includes Jim Diley, Klamath river fisheries manager, Elton Bailey and Harold Hewlett of the Redding regional office; and Carl Hill, manager of the Mt. Shasta fish hatchery. Directing the investigation for Pacific Power is Dr. Roy Hamilton, head biologist of the power company's research department staff in Portland.

The research program will involve flowing water down the tower structure to increase its oxygen content and improve water quality in other aspects.

A series of tests are expected to be conducted before the most effective aerator system is proven.

Water will be drawn from the reservoir through the fish-water outlets that were built into the earthfill structure when it was under construction three years ago.

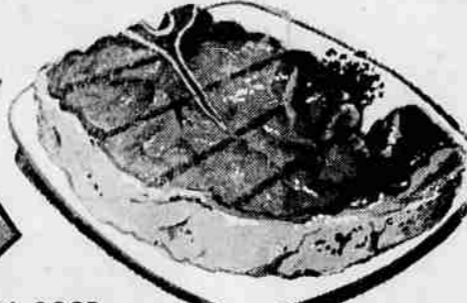
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