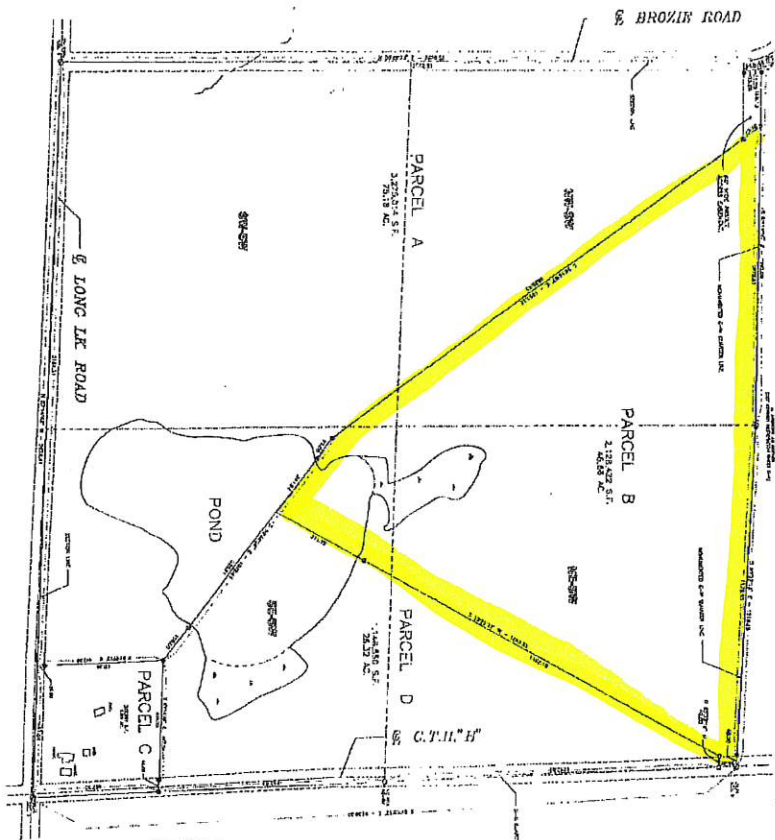


TOJINSKY, ED. ACFTN, RANGE 14 WEST, TOWN OF SCOTT, BURNETT COUNTY, WISCONSIN.



Scale 1°=150'

LEGEND

- 5 WATER CLAS 7%
- 10 # STEEL FIBER 1001 STD (1.40 LB/FT³)
- 20 # 1" P. RL
- 30 3/4" RIGID FILL
- 40 1 1/2" 1.40 STD (1.40 LB/FT³)
- 50 RIGID CHALK EST

[illegible]

Reviewed - Filed 2/14/16

D-1236

A study of 140 subjects in the 2000 Summer of Children's Olympic Games in Sydney, Australia, was conducted to determine the prevalence of self-reported use of anabolic steroids in the United States. Based on a self-report of steroid use, 10% of the subjects were classified as steroid users. The prevalence of steroid use was significantly higher in athletes who were competitive in the United States than in athletes who were competitive in other countries. The prevalence of steroid use was significantly higher in athletes who were competitive in the United States than in athletes who were competitive in other countries. The prevalence of steroid use was significantly higher in athletes who were competitive in the United States than in athletes who were competitive in other countries.

A national poll of 1,041 people in the top 1000 counties in the 48 contiguous states, the National Health Interview Survey (NHIS) is the largest, most detailed, and most comprehensive source of information on the health of the civilian noninstitutionalized population. The NHIS is a continuous, longitudinal survey that provides information on the health status, functional status, and health care use of the civilian noninstitutionalized population. The NHIS is a multi-stage, probability sample survey that includes information on the health status, functional status, and health care use of the civilian noninstitutionalized population. The NHIS is a multi-stage, probability sample survey that includes information on the health status, functional status, and health care use of the civilian noninstitutionalized population.

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Abstract. In this paper, we have obtained the explicit form of the invariant density and the invariant measure of the piecewise linear map, called T , naturally in terms of the parameters of the map. Using the explicit form of the invariant density, we have established the ergodicity of T and the mixing property of T .

Keywords. Piecewise linear map, invariant density, invariant measure, ergodicity, mixing property.

1. Introduction. The piecewise linear map T is defined on the interval $[0, 1]$ by

$$T(x) = \begin{cases} 2x, & 0 \leq x < 1/2, \\ 2(1-x), & 1/2 \leq x \leq 1. \end{cases}$$

It is well known that T is ergodic and mixing. In this paper, we shall obtain the explicit form of the invariant density and the invariant measure of T in terms of the parameters of the map. Using the explicit form of the invariant density, we shall establish the ergodicity of T and the mixing property of T .

2. The piecewise linear map T . The piecewise linear map T is defined on the interval $[0, 1]$ by

$$T(x) = \begin{cases} 2x, & 0 \leq x < 1/2, \\ 2(1-x), & 1/2 \leq x \leq 1. \end{cases}$$

It is well known that T is ergodic and mixing. In this paper, we shall obtain the explicit form of the invariant density and the invariant measure of T in terms of the parameters of the map. Using the explicit form of the invariant density, we shall establish the ergodicity of T and the mixing property of T .

3. The invariant density and the invariant measure of T . The invariant density of T is the function f on $[0, 1]$ such that

$$\int_0^1 f(T(x)) dx = \int_0^1 f(x) dx.$$

The invariant measure of T is the measure μ on $[0, 1]$ such that

$$\mu(T^{-1}(A)) = \mu(A)$$

for any measurable set A in $[0, 1]$. The invariant density and the invariant measure of T are unique up to a constant factor.

4. The explicit form of the invariant density and the invariant measure of T . The invariant density of T is the function f on $[0, 1]$ such that

$$\int_0^1 f(T(x)) dx = \int_0^1 f(x) dx.$$

The invariant measure of T is the measure μ on $[0, 1]$ such that

$$\mu(T^{-1}(A)) = \mu(A)$$

for any measurable set A in $[0, 1]$. The invariant density and the invariant measure of T are unique up to a constant factor.

5. The ergodicity and the mixing property of T . The piecewise linear map T is ergodic and mixing. In this paper, we shall establish the ergodicity of T and the mixing property of T using the explicit form of the invariant density and the invariant measure of T .

6. Conclusion. In this paper, we have obtained the explicit form of the invariant density and the invariant measure of the piecewise linear map, called T , naturally in terms of the parameters of the map. Using the explicit form of the invariant density, we have established the ergodicity of T and the mixing property of T .

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