

() $\sim r \sim \text{nn} n \sim \sim r \sim r \text{nn} r \sim n \sim f \sim r \sim , \sim$
 $\sim r \sim r \sim n \sim n \sim r \text{nn} n \sim \text{nn} n \text{nn} r \sim f \sim \sim \text{nn} n , n , \sim n$
 $n \sim n - \text{nn} \sim n \sim r \sim n \sim \sim , \sim n \sim n \sim n \sim \sim n \sim \sim n (\sim n , \sim n$
 $\sim \text{nn} n \sim n \sim f \sim r \sim \sim r \text{nn} n \sim n \sim f \sim f \sim \sim r \sim \sim \sim n) ,$

() $\sim \sim \sim r \sim \text{nn} n \sim \sim n \sim \sim r \sim n \sim r n n \sim r \text{nn} r \sim n$
 $\sim f \sim r n \sim n - \sim , \sim \sim r \sim r ,$

() $\sim \sim \text{nn} n \sim n \sim r \sim \sim \text{nn} n \sim \sim n \sim r n n \sim \text{nn} n \sim r \sim n \sim$
 $\sim \sim \sim \sim r r \text{nn} \sim f \sim r \sim r , \sim r \sim \sim r \sim n \sim n \sim r \text{nn} n \sim \text{nn} n$
 $\text{nn} \text{nn} r \sim f \sim r \sim r \text{nn} \sim n , \sim n , r \sim r \sim n \sim n \sim$
 $r \sim n \sim n r , \sim r \text{nn} , \sim r \sim r , n \sim f n \sim \sim n \sim n ,$
 $\sim \text{nn} n \sim n \sim \sim r \sim n \sim n \sim r \sim r ,$

() $\sim n , r \sim n \sim r \sim r \sim r \sim / r \sim \sim () \sim n \sim r \sim$
 $\sim n \sim r \text{nn} n n \sim / r \sim n r \text{nn} r \sim n ,$

() $\sim \sim \text{nn} n \sim r f \sim r \text{nn} n \sim \sim r \sim r , \sim r \sim \sim r \sim n \sim n \sim r$
 $\text{nn} n \sim \text{nn} n \text{nn} \text{nn} r \sim f \sim \sim \text{nn} n \sim n \sim n , \sim n n \sim r \sim$
 $\sim f \sim r \sim r f \sim r \text{nn} n , n , \sim n , \sim r \sim , \sim \sim \text{nn} , \sim$
 $\sim n n \sim r \text{nn} r \sim n \sim n \sim f \sim r \sim r \sim n \sim n \sim \sim r , n \sim \text{nn} n \sim n$
 $n , \sim \sim \sim \sim \sim r \sim f \sim r \sim n \sim r \sim n , n \sim \sim \sim r$
 $\sim \text{nn} \text{nn} n \sim n \sim f \sim f \sim r \text{nn} n \sim n \sim n ,$

(10) $\sim \sim , \sim r \text{nn} r \sim n \sim \sim f \sim \sim \text{nn} n \sim n \sim r \sim \sim n$
 $\sim r \sim \sim \sim \text{nn} \text{nn} n \sim n ,$

(11) $\sim \sim \text{nn} n \sim r \text{nn} r \sim n \sim \sim n \sim \sim \sim r \sim n \sim \sim$
 $\sim \sim \text{nn} n \sim f \sim \text{nn} r \sim n \sim \sim \text{nn} n ,$

(12) $\sim \sim n \sim \sim r \sim r \sim , \sim r \text{nn} r \sim n \sim f \sim r \sim r \sim n$
 $n \sim r \text{nn} n \sim \text{nn} n \text{nn} r , n$

(13) $\sim r , \sim , \sim r \sim \sim r .$

§ $\sim r \sim n \sim \sim n r \text{nn} r \sim n \sim n \sim r r \sim$
 $\sim r \text{nn} \sim n r \sim f \sim r \sim r \sim f \sim \sim \text{nn} n .$

§ 10 $\sim r \text{nn} r \sim n \sim n \sim r r \sim \sim f \sim r \sim r \sim n , \sim r \sim \sim r \sim f$
 $\sim \text{nn} n \sim r \sim \sim \sim \text{nn} \text{nn} , \sim \sim \sim \sim r \sim f \sim r$
 $r \sim n \sim n \sim r \sim n \sim \sim r \sim r \sim n r \text{nn} n$
 $f \sim r \sim n \sim r \sim n \sim n \sim r \sim f \sim r \sim \text{nn} \text{nn} n \sim n . \text{nn} n r \sim n \sim n$
 $f \sim r \sim n \sim r \text{nn} n \sim \text{nn} n \text{nn} r \sim f \sim \sim \text{nn} n \sim \sim , \sim \sim \sim$
 $\sim r \sim f \sim r \sim r .$

11 , n r ~, r r n f ~ n - - - ~r n
~ f ~ . r ~n f r r ~ n nf r n ~n r
~ , n r ~, r n - , , r r n f r
n ~ f ~ n n n n r n r ~, ~n ~f
~ r n ~ .

12 

$$(1) \quad \begin{array}{c} \text{nf} \quad \text{r} \quad \text{u} \quad \text{f} \quad \text{n} \quad \text{f} \quad \text{f} \quad \text{u} \quad \text{n} \quad \text{f} \quad \text{f} \quad \text{n} \quad \text{n} \\ \text{n} \quad \text{r} \quad \text{n} \quad \text{r} \quad \text{n} \end{array},$$
$$(2) \quad \begin{aligned} & \frac{\partial}{\partial t} \left(\rho \int_{\Omega} |\nabla u|^2 dx \right) + \int_{\Omega} \rho |\nabla u|^2 dx = \int_{\Omega} \rho f(x) u dx - \int_{\Omega} \rho g(x) |u|^p dx \\ & \quad - \int_{\Omega} \rho h(x) |u|^q dx, \end{aligned}$$
[illegible]
$$(4) \quad \begin{array}{l} \sim r \sim n \quad r f \sim r \sim n \quad \sim r f \quad , \quad \sim n \quad \sim n \sim \sim n \\ n \quad r \sim f \quad \sim n r \sim n \quad \sim f \quad r \sim r \quad , \quad r \sim r \quad n \quad n \sim r \\ \sim n \quad \sim n \quad \sim n \quad r , \end{array}$$
[illegible]
$$() \quad \sim \frac{m}{n} - n = r_n(r) + n$$
$$\sim \frac{m}{n}, n$$
[illegible][illegible]

§ 1 $\begin{matrix} \sim r & u & f & r & u & \sim n & \sim f & \sim u & u \\ \sim u & u & r & \sim f & \sim u & u & . & f & u & u & r & \sim n & \sim n & u & n , \\ / & u & r & n & \sim r & \sim f & \sim r & n & \sim n & n & r & u & u & r & \sim n \\ n & \sim u & n & \sim n & / & r & f . & \sim r & \sim f & \sim r & n & \sim , \\ n & u & \sim f & r & , & n & \sim \sim f , & \sim r & \sim n & n & r & \sim \\ \sim f & \sim f & \sim r & \sim f & \sim r & n , & n & \sim n & \sim r & \sim f & \sim \end{matrix}$
 $r n$.

$\begin{matrix} \sim , & \sim n & u & n & f f r u & \sim \sim f & u & r \\ n & f & \sim f & u & u & r & \sim f & \sim u & u & . & r & \sim r & \sim n \\ \sim r & \sim n & \sim n & n & u & u & r & \sim n & , & u & n & \sim f \\ \sim u & u & . & u & u & r & \sim f & \sim u & u & \sim n & \sim u & u & r \\ \sim f & \sim u & u & \sim f & r , & \sim n & \sim r & n & f r u & \sim n & \sim n & n \\ u & r . \boxtimes & r & r & \sim f & r & n & \sim n & r & \sim n & r & , & n \\ n & u & r , & r & u & n & \sim f & \sim u & u & \sim n & \sim . \end{matrix}$

§ 1 $\begin{matrix} \sim n & \sim f & \sim u & u & u & n & \sim f & \sim n & \sim u & n , \\ \sim u & u & n & \sim n , & r , & \sim n & n & , & \sim n & \sim f & r & \sim , & \sim n & \sim r & \sim r \\ r & r & u & n . \end{matrix}$

§ 1 $\begin{matrix} \boxtimes & r & n & r , & r & \sim r , & r & \sim r & n & n & \sim r & u & n . & u & n & u \\ n & \sim n & n & u & n & \sim f & \sim u & u & \sim r & r . \end{matrix}$

§ 20 $\begin{matrix} n & \sim r & u & n . & u & n & u & u & r & n & r & n & r & u & n & \sim f & \sim u & n \\ \sim r & \sim n & , & \sim r & \sim u & u & n \\ n & \sim n & r & \sim n & r & n & n & f & r & u & \sim n & \sim u & u & . \boxtimes & r \\ n & r , & \sim u & u & u & n & n & n & n & n & \sim r & \sim \\ r & \sim f & \sim n & \sim n & \sim n & \sim n & \sim f & \sim u & n \\ r & \sim n & n , & r & r & r & f & r & u . \end{matrix}$

§ 21 $\begin{matrix} u & u & r & \sim f & \sim u & u & n & n & u & n & \sim f \\ \sim u & u & f & r & / & u & r & \sim f & r & \sim . \end{matrix}$

§ 22 $\begin{matrix} \sim n & n & n & r & , & r & n & \sim n & u & \sim \sim f & u & n & \sim f \\ \sim u & u & n & r & r & u & n & r & \sim n & \sim n & \sim n & n \\ n & \sim u & n & r & n & n & r , & \sim n , & r & , \\ r & , & \sim r & r & \sim n & \sim f & () & r & \sim u & n ' & r & r & , \\ n & r & \sim n & \sim f & r & u . \end{matrix}$

§ 23 $\begin{matrix} \sim u & u & u & n & \sim f & u & n . & u & r & r & n \\ u & n & n & u & n & \sim f & u & n . & u & n & u & n \\ r & r & \sim r & f & r & r & \sim f & n & n 10 & r . \end{matrix}$

§ 24 $\begin{matrix} \sim , & \sim n & \sim u & u & n & \sim n & r , & r & \sim r \\ n & r & n & \sim r & f & r & \sim n & r & n . \end{matrix}$

2 $\frac{u}{r} \frac{r}{r} \frac{n}{n} \frac{u}{n} \frac{f}{n} \frac{u}{u} \frac{n}{r} \frac{n}{n}$
 $\frac{r}{r} \frac{n}{n} \frac{u}{r} \frac{r}{n} \frac{u}{n} \frac{n}{n}$
 $\frac{n}{n} \frac{r}{n} \frac{n}{n} \frac{r}{n} \frac{r}{n} \frac{n}{n}$

There are two main types of *Phragmites* in the United States: *Phragmites australis* and *Phragmites karka*. *Phragmites australis* is the most common and is found in most wetlands. *Phragmites karka* is a more recent introduction and is found in some wetlands in the Northeast and Midwest.

2. r , r , f , r , r , r , n , n , n , r , n , n , r , n , f , f .

2
r n r r n n
ff fr n r
n r n n f
n n r n n r r
r .

2/ n r n r n n n n n
r n n r , r n r r n f
() r n' r r , n r .
r nf n r n n r , r n
r , r r n f () r r f n r
n , n n , r r n n
r , n , r n r , r r n f () r r
f n r n , n , n r
r , n r n n n f r n ,
r r f r n n r

2. $r_n, r_{n+1}, \dots, r_{n+k}$ are the first k terms of the sequence r_n such that $r_n \neq 0$ and $r_{n+1} \neq 0$.