	Target Region:	Switchgrass	s ( <i>Panicum</i> California
. Biogeography	/Historical	Answer	<b>Points</b>
1 Domestication	1.01 Is the species highly domesticated?	Y	-3
/ cultivation	1.02 Has the species become naturalized where grown?	N	-1
	1.03 Does the species have weedy races?	N	-1
Climate and	Spacies suited to target region climate (0 lovy: 1 intermediate: 2		
2 Distribution	2.01 Species suited to target region crimate (0-10w, 1-intermediate, 2-high)	2	
2 Distribution	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	$\frac{2}{2}$	
	2.03 Broad climate suitability (environmental versatility)	Y	
	2.04 Native or naturalized in regions with similar climate	N	
		1	
	2.05 Does the species have a history of repeated introductions outside its		
XX7 1	natural range?	Y	
3 Weed	3.01 Naturalized beyond native range	N	
Elsewhere	3.02 Garden/amenity/disturbance weed	N	
(depends on	3.03 Weed of agriculture	N	
2.01 and 2.02)	3.04 Environmental weed	N	
,	3.05 Congeneric weed	Y	
Piology/Fagla		1	
Biology/Ecolo 4 Undesirable		N	0
	4.01 Produces spines, thorns or burrs	1	
traits	4.02 Allelopathic		0
	4.03 Parasitic	N	0
	4.04 Unpalatable to grazing animals	N	-1
	4.05 Toxic to animals	N	0
	4.06 Host for recognized pests and pathogens	-	0
	4.07 Causes allergies or is otherwise toxic to humans	-	0
	4.08 Creates a fire hazard in natural ecosystems	Y	1
	4.09 Is a shade tolerant plant at some stage of its life cycle	Y	1
	4.10 Grows on infertile soils	Y	1
	4.11 Climbing or smothering growth habit	N	0
	4.12 Forms dense thickets	Y	1
5 Dlant tring		N	0
5 Plant type	5.01 Aquatic		0
	5.02 Grass	Y	1
	5.03 Nitrogen fixing woody plant	N	0
	5.04 Geophyte	N	0
6 Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	N	0
	6.02 Produces viable seed.	Y	1
	6.03 Hybridizes naturally	-	0
	6.04 Self-compatible or apomictic	N	-1
	6.05 Requires specialist pollinators	N	0
	6.06 Reproduction by vegetative fragmentation	Y	1
	6.07 Minimum generative time (years)	1	1
Dispersal	Propagalog likely to be dispersed unintentionally (plants growing in		
7 mechanisms	7.01 Propagates likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	Y	1
, meenamsiiis	7.02 Propagules dispersed intentionally by people	Y	1
			1 1
	7.03 Propagules likely to disperse as a produce contaminant	N	-1
	7.04 Propagules adapted to wind dispersal		0
	7.05 Propagules water dispersed	Y	1
	7.06 Propagules bird dispersed	-	0
	7.07 Propagules dispersed by other animals (externally)	N	1
	7.08 Propagules survive passage through the gut	-	0
8 Persistence	8.01 Prolific seed production (>2000/m2)	Y	1
attributes	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	Y	1
20110000	8.03 Well controlled by herbicides	-	0
	8.04 Tolerates, or benefits from, mutilation or cultivation	_	0
		-	-
	8.05 Effective natural enemies present in target region		5
	Score		_
	Outcome:	Eval	uate furthe

	Target Region:		s ( <i>Panicum vir</i> California
. Biogeography/		Answer	Points
	1.01 Is the species highly domesticated?	N	0
/ cultivation	1.02 Has the species become naturalized where grown?	N	-1
	1.03 Does the species have weedy races?	N	-1
Climate and	2.01 Species suited to target region climate (0-low; 1-intermediate; 2-		
2 Distribution	high)	2	
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	2	
	2.03 Broad climate suitability (environmental versatility)	Y	
	2.04 Native or naturalized in regions with similar climate	N	
	2.05 Does the species have a history of repeated introductions outside	3.7	
W7 4	its natural range?	Y	
3 Weed	3.01 Naturalized beyond native range	N	
Elsewhere	3.02 Garden/amenity/disturbance weed	N	
(depends on	3.03 Weed of agriculture	N	
2.01 and 2.02)	3.04 Environmental weed	N	
	3.05 Congeneric weed	Y	
Biology/Ecolog		<b>N</b> T	
4 Undesirable	4.01 Produces spines, thorns or burrs	N	0
traits	4.02 Allelopathic 4.03 Parasitic	- N	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$
		N N	-1
	4.04 Unpalatable to grazing animals 4.05 Toxic to animals	N N	0
	4.06 Host for recognized pests and pathogens	IN	0
	4.07 Causes allergies or is otherwise toxic to humans	-	0
	4.08 Creates a fire hazard in natural ecosystems	Y	1
	4.09 Is a shade tolerant plant at some stage of its life cycle	Y	1
	4.10 Grows on infertile soils	Y	1
	4.11 Climbing or smothering growth habit	N	0
	4.12 Forms dense thickets	Y	ĭ
5 Plant type	5.01 Aquatic	N	0
71	5.02 Grass	Y	1
	5.03 Nitrogen fixing woody plant	N	0
	5.04 Geophyte	N	0
6 Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	N	0
	6.02 Produces viable seed.	Y	1
	6.03 Hybridizes naturally	-	0
	6.04 Self-compatible or apomictic	N	-1
	6.05 Requires specialist pollinators	N	0
	6.06 Reproduction by vegetative fragmentation	Y	1
	6.07 Minimum generative time (years)	1	1
Dispersal	7.01 Propagules likely to be dispersed unintentionally (plants growing	***	.
7 mechanisms	in heavily trafficked areas)	Y	1
	7.02 Propagules dispersed intentionally by people	Y	1
	7.03 Propagules likely to disperse as a produce contaminant	N	-1
	7.04 Propagules adapted to wind dispersal	- V	0
	7.05 Propagules water dispersed	Y	1
	7.06 Propagules bird dispersed	- Ni	0
	7.07 Propagules dispersed by other animals (externally)	N	1 0
8 Persistence	7.08 Propagules survive passage through the gut 8.01 Prolific seed production (>2000/m2)	<u>-</u> Ү	1
attributes	8.01 Profife seed production (>2000/m2) 8.02 Evidence that a persistent propagale bank is formed (>1 yr)	Y	1
attroutes	8.03 Well controlled by herbicides	-	0
	8.04 Tolerates, or benefits from, mutilation or cultivation	-	0
	8.05 Effective natural enemies present in target region	_	0
	Score:	=	10
	Outcome:		Reject

	Target Region:	Switchgras	California
Biogeography	/Historical	Answer	Points
	1.01 Is the species highly domesticated?	N	0
/ cultivation	1.02 Has the species become naturalized where grown?	N	-1
	1.03 Does the species have weedy races?	N	-1
Climate and	2.01 Species suited to target region climate (0-low; 1-intermediate; 2-		
Distribution	high)	2	
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	2	
	2.03 Broad climate suitability (environmental versatility)	Y	
	2.04 Native or naturalized in regions with similar climate	N	
	2.05 Does the species have a history of repeated introductions outside its		
	natural range?	Y	
3 Weed	3.01 Naturalized beyond native range	N	
Elsewhere	3.02 Garden/amenity/disturbance weed	N	
(depends on	3.03 Weed of agriculture	N	
2.01 and 2.02)	3.04 Environmental weed	N	
	3.05 Congeneric weed	Y	
Biology/Ecolo	gy		
Undesirable	4.01 Produces spines, thorns or burrs	N	0
traits	4.02 Allelopathic	-	0
	4.03 Parasitic	N	0
	4.04 Unpalatable to grazing animals	N	-1
	4.05 Toxic to animals	N	0
	4.06 Host for recognized pests and pathogens	-	0
	4.07 Causes allergies or is otherwise toxic to humans	-	0
	4.08 Creates a fire hazard in natural ecosystems	Y	1
	4.09 Is a shade tolerant plant at some stage of its life cycle	Y	1
	4.10 Grows on infertile soils	Y	1
	4.11 Climbing or smothering growth habit	N	0
D1	4.12 Forms dense thickets	Y	1
Flant type	5.01 Aquatic	N	0
	5.02 Grass	Y N	0
	5.03 Nitrogen fixing woody plant 5.04 Geophyte	1	0
Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	N N	0
Reproduction	6.02 Produces viable seed.	N	_1
	6.03 Hybridizes naturally	_	0
	6.04 Self-compatible or apomictic	N	-1
	6.05 Requires specialist pollinators	N	0
	6.06 Reproduction by vegetative fragmentation	Y	1
	6.07 Minimum generative time (years)	5	-1
Dispersal	7.01 Propagules likely to be dispersed unintentionally (plants growing in		
mechanisms	heavily trafficked areas)	Y	1
	7.02 Propagules dispersed intentionally by people	Y	1
	7.03 Propagules likely to disperse as a produce contaminant	N	-1
	7.04 Propagules adapted to wind dispersal	N	-1
	7.05 Propagules water dispersed	Y	1
	7.06 Propagules bird dispersed	N	-1
	7.07 Propagules dispersed by other animals (externally)	N	-1
	7.08 Propagules survive passage through the gut	N	-1
3 Persistence	8.01 Prolific seed production (>2000/m2)	N	-1
attributes	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	N	-1
	8.03 Well controlled by herbicides	-	0
	8.04 Tolerates, or benefits from, mutilation or cultivation	-	0
	8.05 Effective natural enemies present in target region	-	0
	Score:		-1
	Outcome		Accep

Domestication 1.01 Is the species highly domesticated? Y 1.02 Has the species become naturalized where grown? 1.03 Does the species have weedy races? - Climate and Distribution 2.01 Species suited to target region climate (0-low; 1-intermediate; 2-high) 2.02 Quality of climate match data (0-low; 1-intermediate; 2-high) 2.03 Broad climate suitability (environmental versatility) - 2.04 Native or naturalized in regions with similar climate Y 2.05 Does the species have a history of repeated introductions outside its natural range? Y 2.01 and 2.02 Garden/amenity/disturbance weed Y 2.01 and 2.02 Garden/amenity/disturbance weed Y 3.03 Weed of agriculture N 2.01 and 2.02 Met invironmental weed Y 3.05 Congeneric weed N 8 Biology/Ecology  Undesirable 4.01 Produces spines, thorns or burrs 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems - Cause of the species have a product of the spin of	0 0 0 0 0
Cultivation 1.02 Has the species become naturalized where grown? 1.03 Does the species have weedy races?  2.01 Species suited to target region climate (0-low; 1-intermediate; 2-high) 2.02 Quality of climate match data (0-low; 1-intermediate; 2-high) 2.03 Broad climate suitability (environmental versatility) 2.04 Native or naturalized in regions with similar climate 2.05 Does the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere depends on 3.03 Weed of agriculture 3.04 Environmental weed 3.05 Congeneric weed  Biology/Ecology Undesirable raits 4.01 Produces spines, thorns or burrs 4.02 Allelopathic Naturalized to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans 4.08 Creates a fire hazard in natural ecosystems	0 0 0 0
1.03 Does the species have weedy races?   -	0 0 0 0 0 0
Climate and Distribution  2.01 Species suited to target region climate (0-low; 1-intermediate; 2-high) 2.02 Quality of climate match data (0-low; 1-intermediate; 2-high) 2.03 Broad climate suitability (environmental versatility) 2.04 Native or naturalized in regions with similar climate  2.05 Does the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed depends on 3.03 Weed of agriculture 2.01 and 2.02) 3.04 Environmental weed 3.05 Congeneric weed  N  Biology/Ecology  Undesirable 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic 4.03 Parasitic 4.04 Unpalatable to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans 4.08 Creates a fire hazard in natural ecosystems  2 Diameter (1-low; 1-intermediate; 2-high) 2 Diameter (2-low); 1-intermediate; 2-high) 3 Diameter (2-low); 1-intermediate; 2-high) 4 Diameter (2-low); 1-intermediate; 2-high) 5 Diameter (2-low); 1-intermediate; 2-high) 6 Diameter (2-low); 1-intermediate; 2-high) 7 Diameter (2-low); 1-intermediate; 2-high) 8 Diameter (2-low); 1-intermediate; 2-high) 9 Diameter (2-low); 1-intermediate; 2-high) 9 Diameter (2-low); 1	0 0 0 0
Distribution  2.01 high)  2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)  2.03 Broad climate suitability (environmental versatility)  2.04 Native or naturalized in regions with similar climate  2.05 Does the species have a history of repeated introductions outside its natural range?  Weed  3.01 Naturalized beyond native range  Elsewhere  3.02 Garden/amenity/disturbance weed  4.01 Produces spines, thorns or burrs  7. Thichinchiat, 2-high)  9. Thichinchiate, 2-high)  9. Thichinc	0 0 0
Distribution    Distribution   Distr	0 0 0
2.02 Quality of climate match data (0-low; 1-intermediate; 2-high) 2.03 Broad climate suitability (environmental versatility) 2.04 Native or naturalized in regions with similar climate  Poes the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range  Elsewhere 3.02 Garden/amenity/disturbance weed  Y 3.03 Weed of agriculture N 2.01 and 2.02) 3.04 Environmental weed 2.05 Congeneric weed  N  Biology/Ecology  Undesirable raits 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic 4.03 Parasitic N 4.04 Unpalatable to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans 4.08 Creates a fire hazard in natural ecosystems  -   2.01 and 2.02 Alielopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals N 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens -  4.07 Causes allergies or is otherwise toxic to humans -  4.08 Creates a fire hazard in natural ecosystems	0 0 0
2.03 Broad climate suitability (environmental versatility) 2.04 Native or naturalized in regions with similar climate  2.05 Does the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed (depends on 3.03 Weed of agriculture 2.01 and 2.02) 3.04 Environmental weed 3.05 Congeneric weed  N  Biology/Ecology Undesirable 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic 4.03 Parasitic 4.04 Unpalatable to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans 4.08 Creates a fire hazard in natural ecosystems  -   Y  Y  N  Y  A  Y  N  Y  A  V  A  V  A  V  A  V  A  V  A  V  A  V  A  V  A  A	0 0 0
2.04 Native or naturalized in regions with similar climate  2.05 Does the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed  Queends on 3.03 Weed of agriculture  2.01 and 2.02) 3.04 Environmental weed 3.05 Congeneric weed  Produces spines, thorns or burrs  Traits 4.01 Produces spines, thorns or burrs  Traits 4.02 Allelopathic  4.03 Parasitic  4.04 Unpalatable to grazing animals  4.05 Toxic to animals  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  4.08 Creates a fire hazard in natural ecosystems	0 0 0
Does the species have a history of repeated introductions outside its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed  Queends on 3.03 Weed of agriculture 2.01 and 2.02) 3.04 Environmental weed 3.05 Congeneric weed  Windesirable 4.01 Produces spines, thorns or burrs  Traits 4.02 Allelopathic 4.03 Parasitic 4.04 Unpalatable to grazing animals 4.05 Toxic to animals 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans 4.08 Creates a fire hazard in natural ecosystems  Y  Y  Y  Y  Y  Y  Y  Y  A  Y  Y  A  Y  A  Y  A  N  N  A  N  A  Creates a fire hazard in natural ecosystems	0 0 0
its natural range?  Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y	0 0 0
Weed 3.01 Naturalized beyond native range Elsewhere 3.02 Garden/amenity/disturbance weed Y Y Zelsewhere 3.03 Weed of agriculture N Zelsewhere 3.04 Environmental weed Y Zelsewhere N Zelsew	0 0 0
Elsewhere 3.02 Garden/amenity/disturbance weed Y (depends on 3.03 Weed of agriculture N 2.01 and 2.02) 3.04 Environmental weed Y 3.05 Congeneric weed N  Biology/Ecology Undesirable 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals - 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens - 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems -	0 0 0
depends on 3.03 Weed of agriculture N 2.01 and 2.02) 3.04 Environmental weed Y 3.05 Congeneric weed N N Siology/Ecology  Undesirable 4.01 Produces spines, thorns or burrs N 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals A 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems -	0 0 0
2.01 and 2.02) 3.04 Environmental weed 3.05 Congeneric weed N  Biology/Ecology  Undesirable 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals - 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens - 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems -	0 0 0
3.05 Congeneric weed  Biology/Ecology  Undesirable 4.01 Produces spines, thorns or burrs raits 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals - 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens - 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems -	0 0 0
Biology/Ecology Undesirable 4.01 Produces spines, thorns or burrs N Traits 4.02 Allelopathic N 4.03 Parasitic N 4.04 Unpalatable to grazing animals - 4.05 Toxic to animals N 4.06 Host for recognized pests and pathogens - 4.07 Causes allergies or is otherwise toxic to humans N 4.08 Creates a fire hazard in natural ecosystems -	0 0 0
Undesirable 4.01 Produces spines, thorns or burrs  4.02 Allelopathic N  4.03 Parasitic N  4.04 Unpalatable to grazing animals  4.05 Toxic to animals N  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  4.08 Creates a fire hazard in natural ecosystems	0 0 0
raits  4.02 Allelopathic  N  4.03 Parasitic  N  4.04 Unpalatable to grazing animals  4.05 Toxic to animals  N  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  N  4.08 Creates a fire hazard in natural ecosystems	0 0 0
4.03 Parasitic  4.04 Unpalatable to grazing animals  4.05 Toxic to animals  N  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  N  4.08 Creates a fire hazard in natural ecosystems  N	0
4.04 Unpalatable to grazing animals  4.05 Toxic to animals  N  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  N  4.08 Creates a fire hazard in natural ecosystems  -	0
4.05 Toxic to animals  4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  4.08 Creates a fire hazard in natural ecosystems  N	-
4.06 Host for recognized pests and pathogens  4.07 Causes allergies or is otherwise toxic to humans  4.08 Creates a fire hazard in natural ecosystems  -	U
4.07 Causes allergies or is otherwise toxic to humans  N 4.08 Creates a fire hazard in natural ecosystems	0
4.08 Creates a fire hazard in natural ecosystems	0
	0
4.09 Is a shade tolerant plant at some stage of its life cycle N	0
4.10 Grows on infertile soils	0
4.11 Climbing or smothering growth habit	0
4.12 Forms dense thickets N	0
Plant type 5.01 Aquatic -	0
5.02 Grass -	0
5.03 Nitrogen fixing woody plant	0
5.04 Geophyte -	0
Reproduction 6.01 Evidence of substantial reproductive failure in native habitat -	0
6.02 Produces viable seed.	1
6.03 Hybridizes naturally N	-1
6.04 Self-compatible or apomictic	0
6.05 Requires specialist pollinators	0
6.06 Reproduction by vegetative fragmentation Y	1
6.07 Minimum generative time (years) 5	-1
Dispersal Propagules likely to be dispersed unintentionally (plants growing	
nechanisms 7.01 in heavily trafficked areas) N	-1
7.02 Propagules dispersed intentionally by people Y	1
7.03 Propagules likely to disperse as a produce contaminant N	-1
7.04 Propagules adapted to wind dispersal Y	1
7.05 Propagules water dispersed N	-1
7.06 Propagules bird dispersed N	-1
7.00 Propagates of dataspersed 7.07 Propagates dispersed by other animals (externally)  N	-1
7.08 Propagules survive passage through the gut	0
Persistence 8.01 Prolific seed production (>2000/m2)	0
attributes 8.02 Evidence that a persistent propagule bank is formed (>1 yr)	0
8.03 Well controlled by herbicides -	0
8.04 Tolerates, or benefits from, mutilation or cultivation	1
8.05 Effective natural enemies present in target region -	0
Score:	4
Outcome: Evaluate	•

	Target Region:		Florida	donax)
A. Biogeography/		Answer	Points	
	1.01 Is the species highly domesticated?	Y	-3	
/ cultivation	1.02 Has the species become naturalized where grown?	Y	1	
	1.03 Does the species have weedy races?	-	0	
Climate and	Spacies suited to target region climate (0 low: 1 intermediate: 2			
2 Distribution	2.01 Species suited to target region crimate (0-low, 1-intermediate, 2-high)	2		
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	0		
	2.03 Broad climate suitability (environmental versatility)	_		
	2.04 Native or naturalized in regions with similar climate	Y		
	Doog the amoning house a higher of noncoted introductions outside its			
	2.05 Does the species have a history of repeated introductions outside its natural range?	Y		
3 Weed	3.01 Naturalized beyond native range	Y		
Elsewhere	3.02 Garden/amenity/disturbance weed	Y		
(depends on	3.03 Weed of agriculture	N		
2.01 and 2.02)	3.04 Environmental weed	Y		
2.01 una 2.02)	3.05 Congeneric weed	N		
B. Biology/Ecolog	_			
4 Undesirable	4.01 Produces spines, thorns or burrs	N	0	
traits	4.02 Allelopathic	N	0	
******	4.03 Parasitic	N	o l	
	4.04 Unpalatable to grazing animals	-	0	
	4.05 Toxic to animals	N	o l	
	4.06 Host for recognized pests and pathogens	-	o l	
	4.07 Causes allergies or is otherwise toxic to humans	N	0	
	4.08 Creates a fire hazard in natural ecosystems	-	o l	_
	4.09 Is a shade tolerant plant at some stage of its life cycle	N	o l	Sp
	4.10 Grows on infertile soils	-	0	Vee
	4.11 Climbing or smothering growth habit	N	o l	<b>~</b>
	4.12 Forms dense thickets	N	0	an
5 Plant type	5.01 Aquatic	-	0	뒫
o Trancety pe	5.02 Grass	Y	1	
	5.03 Nitrogen fixing woody plant	-	0	0.7
	5.04 Geophyte	_	o l	70
6 Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	N	0	(Fox 2007 Wildland Weeds)
o resproduction	6.02 Produces viable seed.	Y	1	$\mathcal{F}$
	6.03 Hybridizes naturally	N	-1	qa
	6.04 Self-compatible or apomictic	-	0	
	6.05 Requires specialist pollinators	Y	o l	豆
	6.06 Reproduction by vegetative fragmentation	Y	1	<u>ē</u>
	6.07 Minimum generative time (years)	5	-1	pa
Dispersal	Propagules likely to be dispersed unintentionally (plants growing in		-	ŗ
7 mechanisms	7.01 Propagates fixely to be dispersed difficultivities (plants growing in heavily trafficked areas)	N	-1	ınt
, meenamsins	7.02 Propagules dispersed intentionally by people	Y	1	gis
	7.03 Propagules likely to disperse as a produce contaminant	N	-1	of
	7.04 Propagules adapted to wind dispersal	Y	1	This is an initial assessment of giant reed for Florid
	7.05 Propagules water dispersed	Y	1	me
	7.06 Propagules bird dispersed	N	-1	es S
	7.07 Propagules dispersed by other animals (externally)	N	-1	1SS(
	7.07 Propagates dispersed by other animals (externally) 7.08 Propagates survive passage through the gut	- 1 N	0	<u> </u>
8 Persistence	8.01 Prolific seed production (>2000/m2)		0	įţį
	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	_	0	
attributes		- N	1	an
	8.03 Well controlled by herbicides	Y Y	1	S
	8.04 Tolerates, or benefits from, mutilation or cultivation 8.05 Effective natural enemies present in target region	ĭ	1	his
	o up reflective natural enemies present in target region	-	0	L
	Score:		8	

	Target Region:	Giant re	ed ( <i>Arundo done</i> Florida
. Biogeography/		Answer	Points
	1.01 Is the species highly domesticated?	N	0
/ cultivation	1.02 Has the species become naturalized where grown?	Y	1
, , , , , , , , , , , , , , , , , , , ,	1.03 Does the species have weedy races?	Y	1
Climate and	Species suited to target region alimete (0 lovy: 1 intermediate: 2		
2 Distribution	2.01 Species suited to target region crimate (0-10w, 1-intermediate, 2-high)	2	
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	2	
	2.03 Broad climate suitability (environmental versatility)	-	
	2.04 Native or naturalized in regions with similar climate	Y	
	2.05 Does the species have a history of repeated introductions outside its		
	2.05 Poes the species have a history of repeated introductions outside its natural range?	Y	
3 Weed	3.01 Naturalized beyond native range	Y	
Elsewhere	3.02 Garden/amenity/disturbance weed	Y	
	3.03 Weed of agriculture	N	
(depends on	3.04 Environmental weed	Y	
2.01 and 2.02)	3.05 Congeneric weed	N	
Diology/Foolog		IN	
<ul><li>Biology/Ecolog</li><li>4 Undesirable</li></ul>		λī	0
	4.01 Produces spines, thorns or burrs 4.02 Allelopathic	N	0
traits	4.02 Allelopathic 4.03 Parasitic	- NT	0
		N	0
	4.04 Unpalatable to grazing animals	-	0
	4.05 Toxic to animals	-	0
	4.06 Host for recognized pests and pathogens	-	0
	4.07 Causes allergies or is otherwise toxic to humans	-	0
	4.08 Creates a fire hazard in natural ecosystems	Y	1
	4.09 Is a shade tolerant plant at some stage of its life cycle	Y	
	4.10 Grows on infertile soils	-	0
	4.11 Climbing or smothering growth habit	N	0
	4.12 Forms dense thickets	Y	1
5 Plant type	5.01 Aquatic	N	0
	5.02 Grass	Y	1
	5.03 Nitrogen fixing woody plant	N	0
	5.04 Geophyte	N	0
6 Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	-	0
	6.02 Produces viable seed.	N	-1
	6.03 Hybridizes naturally	-	0
	6.04 Self-compatible or apomictic	-	0
	6.05 Requires specialist pollinators	N	0
	6.06 Reproduction by vegetative fragmentation	Y	1
	6.07 Minimum generative time (years)	5	-1
Dispersal	7.01 Propagules likely to be dispersed unintentionally (plants growing in		
7 mechanisms	heavily trafficked areas)	Y	1
	7.02 Propagules dispersed intentionally by people	Y	1
	7.03 Propagules likely to disperse as a produce contaminant	N	-1
	7.04 Propagules adapted to wind dispersal	N	-1
	7.05 Propagules water dispersed	Y	1
	7.06 Propagules bird dispersed	N	-1
	7.07 Propagules dispersed by other animals (externally)	N	-1
	7.08 Propagules survive passage through the gut		0
8 Persistence	8.01 Prolific seed production (>2000/m2)	N	-1
attributes	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	N	-1
	8.03 Well controlled by herbicides	N	1
	8.04 Tolerates, or benefits from, mutilation or cultivation	Y	1
	8.05 Effective natural enemies present in target region	<u>-</u>	0
	Score:		11
	Outcome:		Reject

Target R		Giant reed ( <i>Arundo</i> Florida	
Biogeography/Historical	Answer	Points	
Domestication 1.01 Is the species highly domesticated?	N	0	
cultivation 1.02 Has the species become naturalized where grown?	Y	1	
1.03 Does the species have weedy races?	Y	1	
Climate and 2.01 Species suited to target region climate (0-low; 1-intermedia	ate; 2-		
Distribution 2.01 high)	2		
2.02 Quality of climate match data (0-low; 1-intermediate; 2-hip			
2.03 Broad climate suitability (environmental versatility)	-		
2.04 Native or naturalized in regions with similar climate	Y		
2.05 Does the species have a history of repeated introductions o	utside		
its natural range?	Y		
Weed 3.01 Naturalized beyond native range	Y		
Elsewhere 3.02 Garden/amenity/disturbance weed	Y		
depends on 3.03 Weed of agriculture	N		
2.01 and 2.02) 3.04 Environmental weed	Y		
3.05 Congeneric weed	N		
Biology/Ecology	1,		
Undesirable 4.01 Produces spines, thorns or burrs	N	0	
raits 4.02 Allelopathic	_	0	
4.03 Parasitic	N	0	
4.04 Unpalatable to grazing animals	_	0	
4.05 Toxic to animals	_	0	
4.06 Host for recognized pests and pathogens	_	0	
4.07 Causes allergies or is otherwise toxic to humans	_	0	
4.08 Creates a fire hazard in natural ecosystems	Y	1	
4.09 Is a shade tolerant plant at some stage of its life cycle	Y	1	
4.10 Grows on infertile soils		0	
4.11 Climbing or smothering growth habit	N	0	
4.12 Forms dense thickets	Y	1	
Plant type 5.01 Aquatic	N	0	
5.02 Grass	Y	1	
5.03 Nitrogen fixing woody plant	N	0	
5.04 Geophyte	N	0	
Reproduction 6.01 Evidence of substantial reproductive failure in native habit		0	
6.02 Produces viable seed.	Y Y	1	
6.03 Hybridizes naturally	1	0	
6.04 Self-compatible or apomictic	_	0	
6.05 Requires specialist pollinators	N	0	
6.06 Reproduction by vegetative fragmentation	Y	1	
6.07 Minimum generative time (years)	1	1	
Dispersed Propagates likely to be dispersed unintentianally (plants or		1	
nechanisms 7.01 rropagules fixely to be dispersed diffinentionally (plants gi	Y	1	
7.02 Propagules dispersed intentionally by people	Y	1	
	N	-1	
7.03 Propagules likely to disperse as a produce contaminant 7.04 Propagules adapted to wind dispersal	Y		
· · · · · · · · · · · · · · · · · · ·		1	
7.05 Propagules water dispersed	Y	1	
7.06 Propagules bird dispersed	N	-1	
7.07 Propagules dispersed by other animals (externally)	N	-1	
7.08 Propagules survive passage through the gut	-	0	
Persistence 8.01 Prolific seed production (>2000/m2)	_	0	
attributes 8.02 Evidence that a persistent propagule bank is formed (>1 yr		0	
8.03 Well controlled by herbicides	N	1	
8.04 Tolerates, or benefits from, mutilation or cultivation	Y	1	
8.05 Effective natural enemies present in target region		0	
	Score:	19	
Out	come:	Rejec	

	naso JM 2008. Non-native species and bioenergy: Are we cultivating		nthus x giganteus
	Target Region:	U	Inited States
A. Biogeography/		Answer	Points
1 Domestication	1.01 Is the species highly domesticated?	Y	-3
/ cultivation	1.02 Has the species become naturalized where grown?	N	-1
	1.03 Does the species have weedy races?	N	-1
Climate and	2.01 Species suited to target region climate (0-low; 1-intermediate; 2-		
2 Distribution	high)	2	
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	2	
	2.03 Broad climate suitability (environmental versatility)	Y	
	2.04 Native or naturalized in regions with similar climate	Y	
	2.05 Does the species have a history of repeated introductions outside		
	its natural range?	Y	
3 Weed	3.01 Naturalized beyond native range	N	
Elsewhere	3.02 Garden/amenity/disturbance weed	N	
(depends on	3.03 Weed of agriculture	N	
2.01 and 2.02)	3.04 Environmental weed	N	
,	3.05 Congeneric weed	Y	
B. Biology/Ecolog			
4 Undesirable	4.01 Produces spines, thorns or burrs	N	0
traits	4.02 Allelopathic	-	0
	4.03 Parasitic	N	0
	4.04 Unpalatable to grazing animals	-	0
	4.05 Toxic to animals	-	0
	4.06 Host for recognized pests and pathogens	-	0
	4.07 Causes allergies or is otherwise toxic to humans	-	0
	4.08 Creates a fire hazard in natural ecosystems	-	0
	4.09 Is a shade tolerant plant at some stage of its life cycle	-	0
	4.10 Grows on infertile soils	-	0
	4.11 Climbing or smothering growth habit	N	0
	4.12 Forms dense thickets	Y	1
5 Plant type	5.01 Aquatic	N	0
3.1	5.02 Grass	Y	1
	5.03 Nitrogen fixing woody plant	N	0
	5.04 Geophyte	N	0
6 Reproduction	6.01 Evidence of substantial reproductive failure in native habitat	N	0
1	6.02 Produces viable seed.	N	-1
	6.03 Hybridizes naturally	N	-1
	6.04 Self-compatible or apomictic	N	-1
	6.05 Requires specialist pollinators	N	0
	6.06 Reproduction by vegetative fragmentation	Y	1
	6.07 Minimum generative time (years)	5	-1
Dispersal	Propagules likely to be dispersed unintentionally (plants growing		
7 mechanisms	7.01 in heavily trafficked areas)	Y	1
	7.02 Propagules dispersed intentionally by people	Y	1
	7.03 Propagules likely to disperse as a produce contaminant	N	-1
	7.04 Propagules adapted to wind dispersal	N	-1
	7.05 Propagules water dispersed	_	0
	7.06 Propagules bird dispersed	N	-1
	7.07 Propagules dispersed by other animals (externally)	N	-1
	7.08 Propagules survive passage through the gut	-	0
8 Persistence	8.01 Prolific seed production (>2000/m2)	N	-1
attributes	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	N	-1
	8.03 Well controlled by herbicides	-	0
	8.04 Tolerates, or benefits from, mutilation or cultivation	Y	1
	8.05 Effective natural enemies present in target region	-	0
	Score:		-7
	Outcome:		Accept

	Target Region:		Miscanthus x gigant United States	
. Biogeography/	Historical	Answer	Points	
1 Domestication	1.01 Is the species highly domesticated?	N	0	
/ cultivation	1.02 Has the species become naturalized where grown?	N	-1	
	1.03 Does the species have weedy races?	N	-1	
Climate and	2.01 Species suited to target region climate (0-low; 1-intermediate; 2-			
2 Distribution	high)	2		
	2.02 Quality of climate match data (0-low; 1-intermediate; 2-high)	2		
	2.03 Broad climate suitability (environmental versatility)	Y		
	2.04 Native or naturalized in regions with similar climate	Y		
	2.05 Does the species have a history of repeated introductions outside its			
	2.05 natural range?	Y		
3 Weed	3.01 Naturalized beyond native range	N		
Elsewhere	3.02 Garden/amenity/disturbance weed	N		
(depends on	3.03 Weed of agriculture	N		
2.01 and 2.02)	3.04 Environmental weed	N		
2.01 and 2.02)	3.05 Congeneric weed	Y		
. Biology/Ecolog		1		
4 Undesirable	4.01 Produces spines, thorns or burrs	N	0	
traits	4.02 Allelopathic	-	0	
uans	4.03 Parasitic	N	0	
	4.04 Unpalatable to grazing animals	-	o l	
	4.05 Toxic to animals	_	0	
	4.06 Host for recognized pests and pathogens	-	0	
	4.07 Causes allergies or is otherwise toxic to humans	-	0	
		-	0	
	4.08 Creates a fire hazard in natural ecosystems	-	0	
	4.09 Is a shade tolerant plant at some stage of its life cycle 4.10 Grows on infertile soils	-		
		- NI	0	
	4.11 Climbing or smothering growth habit	N	0	
5 Dlant toma	4.12 Forms dense thickets 5.01 Aquatic	Y N	0	
5 Plant type	5.02 Grass	Y	1	
		N	1	
	5.03 Nitrogen fixing woody plant		0	
( D 1	<ul><li>5.04 Geophyte</li><li>6.01 Evidence of substantial reproductive failure in native habitat</li></ul>	N N	0	
6 Reproduction	÷			
	6.02 Produces viable seed.	N	-1	
	6.03 Hybridizes naturally	N	-1	
	6.04 Self-compatible or apomictic	N	-1	
	6.05 Requires specialist pollinators	N	0	
	6.06 Reproduction by vegetative fragmentation	Y	1	
D' 1	6.07 Minimum generative time (years)	5	-1	
Dispersal	7.01 Propagules likely to be dispersed unintentionally (plants growing in	v	1	
7 mechanisms	heavily trafficked areas)	Y Y	l	
	7.02 Propagules dispersed intentionally by people		1	
	7.03 Propagules likely to disperse as a produce contaminant	N	-1	
	7.04 Propagules adapted to wind dispersal	N	-1	
	7.05 Propagules water dispersed	-	0	
	7.06 Propagules bird dispersed	N	-1	
	7.07 Propagules dispersed by other animals (externally)	N	-1	
0 B	7.08 Propagules survive passage through the gut	-	0	
8 Persistence	8.01 Prolific seed production (>2000/m2)	N	-1	
attributes	8.02 Evidence that a persistent propagule bank is formed (>1 yr)	N	-1	
	8.03 Well controlled by herbicides	-	0	
	8.04 Tolerates, or benefits from, mutilation or cultivation	Y	1	
	8.05 Effective natural enemies present in target region	-	0	
	Score:		-2	
	Outcome:		Accept	