

HJ

中华人民共和国国家环境保护标准

HJ 1143 2020

生态环境部

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.....
.....

A
B
C
D
E

.....
.....
.....
.....
.....

1

2

3

3.1

3.2

3.3

3.4

3.5

3.6

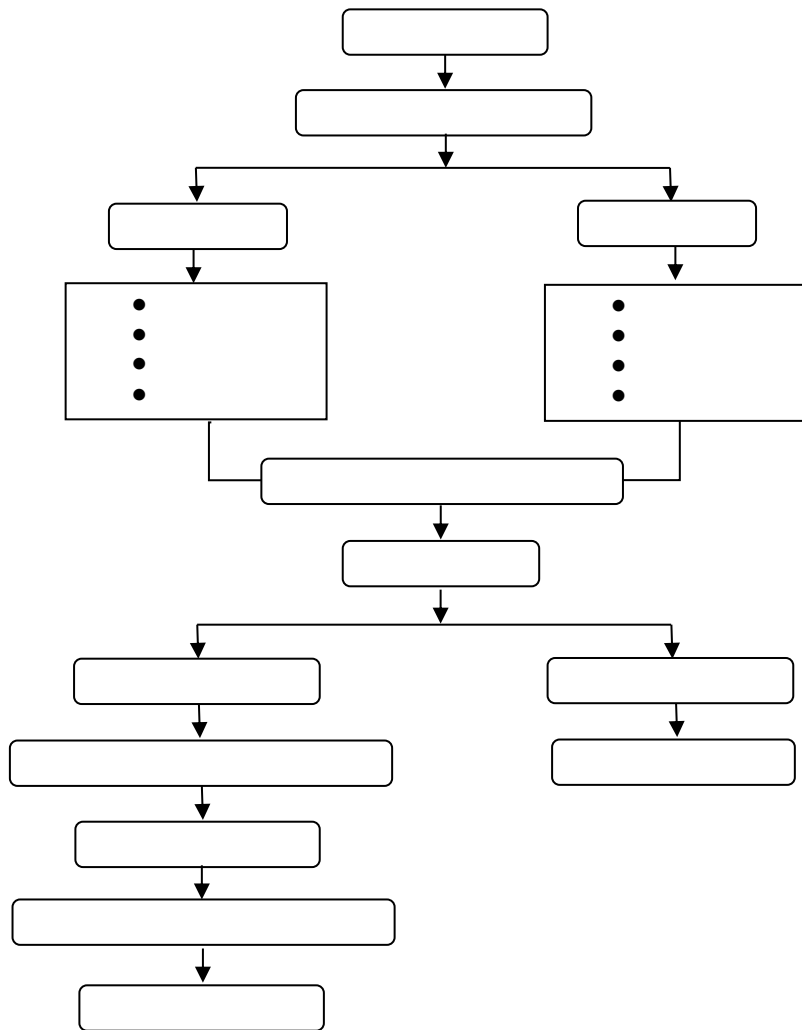
4

5

X
 Y'
 Y

$$(X) = \frac{Y'}{Y}$$

6



7

		%	a	
		km ²		

	%			
	%			
	%			
	km/km ²			
		12369		
				2
a				

EM

EC

EA

EL

EF

SJ

			15	13	11	9		
		1	X	X 1.05	X 1.025	X 1.005	X 1	

$$(EA) = \sum_{i=1}^n EA_i \times W_i$$

EA

EA_i

i

W

i

n

				45	36	27	18	0	
		-	-	X<0.985	X 0.995	X 1.005	X 1.015	X	
		-	-	X	X 1.015	X 1.005	X 0.995	X<0.985	
		-	-		X 1.015	X 1.005	X 0.995	X<0.985	
		-	0		X 1.05	X 1.025	X 1.005	X 1	

				20	15	10	5	0	
		-	-	$X < 0.985$	X 0.995	X 1.005	X 1.015	X	
		-	-	X	X 1.015	X 1.005	X 0.995	$X < 0.985$	
		$\frac{1}{-}$	-	X	X 1.015	X 1.005	X 0.995	$X < 0.985$	
		-	0	X	X 1.05	X 1.025	X 1.005	X 1	

$$(EL) = \sum_{i=1}^n EL_i \times W_i$$

EL

EL_i

i

W

				40	34	28	22	0	
	0.1	1	X	X 1.015	X 1.005	X 0.995	X<0.985		
	0.8	/	X	X 1.015	X 1.005	X 0.995	X<0.985		
		+ + /	X	X 1.015	X 1.005	X 0.995	X<0.985		
		+ /	X	X 1.015	X 1.005	X 0.995	X<0.985		
		/	X	X 1.015	X 1.005	X 0.995	X<0.985		
		/	X	X 1.015	X 1.005	X 0.995	X<0.985		
		0.1	1	X<0.985	X 0.995	X 1.005	X 1.015	X	

$$AEF = \sum_{i=1}^n AEF_i \times W_i$$

AEF

AEF_i

i

W

i

n

$$FEF = \sum_{i=1}^n FEF_i \times W_i \times w_i$$

FEF

FEF_i

i

W

w

i

n

			25	20	15	10	0	
		0.6						

			25	20	15	10	0	
		0.4	X	X 1.15	X 1.05	X 0.95	X<0.85	

				4 /		
				2 /		
				1 /		
				4 /		
				2 /		
				1 /		

$$(EM) = \sum_{i=1}^n EM_i \times W_i$$

EM

EM_i

i

W

i

n

		3	2	1	0.5	0	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X<0.925	X 0.975	X 1.025	X 1.075	X	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.075	X 1.025	X 0.975	X<0.925	
		X	X 1.15	X 1.05	X 0.95	X<0.85	
		X	X 1.15	X 1.05	X 0.95	X<0.85	

$$(EC) = \sum_{i=1}^n EC_i$$

EC

EC_i i
 i
 n

$EPEI$ EC EA EL SJ EF EM
 $EPEI$ $EPEI$ $EPEI$

$$EPEI = EA + EL + EF + EM + EC - SJ$$

$EPEI$
 EA
 EL
 EF
 EM
 EC
 SJ

$EPEI$

$EPEI$
 $EPEI$

$EPEI$

	$EPEI$	$EPEI$	
		$EPEI$	
		$EPEI$	
	$EPEI$	$EPEI$	
	$EPEI$	$EPEI$	
		$EPEI$	
		$EPEI$	

A

I	I	II	II
2		21	
		22	
		23	
3		31	
		32	
		33	
		34	
4		41	
		42	
		43	
5		51	
		52	
6		61	
		62	
		63	
7		71	
		72	
		73	
8		81	/
		82	

B

$$S_r = S/AT_a \times 100\%$$

S_r
 S
 AT_a

$$A_h = \sum_{i=1}^n A_i$$

A_h
 A_i i
 n

$$A_n = (A_d + A_r) / A_p$$

A_n
 A_d
 A_r
 A_p

$$NR = NT/S \times 100\%$$

NR
 NT
 S

$$ONC_{rr} = NC_l / CL_t \times 100\%$$

ONC_{rr}

NC_l

CL_t

$$VCI = (\sum_{i=1}^n FVC_{pi}) / n$$

VCI

FVC_{pi}

i

n

$$KS_r = PKS / AKS \times 100\%$$

KS_r

PKS

AKS

$$LP_d = AR_l / S$$

LP_d

AR_l

S

$$PSI = SN_{rps} / TSP \times 100\%$$

PSI

SN_{rps}

TSP

C

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.



D

<i>EPEI</i>	<i>EPEI</i>		

<i>EPEI</i>	<i>EPEI</i>		

E

- 1.
- 2.
- 3.
- 4.
- 5.

6.

2 3 4