

G E[~] U H 4
 W E[~] : L E[~] F ' U T
 V E[~] M 7/8 M G :
 7/8 7/8

H M E V
 E[~] 卜 Y T E' M
 M E 4 B 18 "H/ E[~] Hψ M =
 100% V 6' E[~] ' E 150% E[~] p U
 E i i r H E
 H M E T ψ i 卜 7 A

32 M i
 1 M E[~] U A
 2 M B V G 4,000 ' "H f
 B 8,000 ' "H i r Y a
 4 ‰
 3 M E[~] E i
 ' Y B 18 "H/ E 18 "H/
 8,000 ' "H † M 444.4444' M V ||
 0.58% E 18 "H/ Y 4,000 ' "H †
 M 222.2222' M V || 0.29% 8.3

У	а	У	57.25%	У	У	У	У
236,058.26'	У	У	У	37.38%	У	У	82,696.38'
У	а	У	4,000'	У—8,000'	У	У	У
У	У	У	У	У	У	У	У

λ μ
1 ψ $\tilde{E}$ $H\psi$ η $\mathfrak{b}$
12 ω $\tilde{\imath}$ γ $\mathfrak{H}$ $\mathfrak{D}$ $\dagger$ $\mathbb{H}$
1 $\dot{\rho}$ $\mathfrak{a}$ $\int$ $\dagger$ $\mathfrak{A}$
 $\sim$ $\mathfrak{A}$ $\mathbb{H}$
2 $\tilde{E}$ $H\psi =$ $\dagger$ $H\psi =$
 η $\mathbb{H}$
 $H\psi$ $\dot{\rho}$ $'$ $\mathfrak{b}$ $\mathfrak{F}$ $=$ $\mathfrak{z}$ γ
2 $\tilde{E}$ $\mathfrak{b}$ $\mathfrak{H}\downarrow$ μ
1 $\tilde{E}$ $\mathfrak{z}$ $\tilde{E}$ $\mathbb{H}$ 10 ω' $\dot{\rho}$
2 $\sim$ $\tilde{E}$ $'$ E $^{\circ}$ H $\ddot{U}$ η
 $=$ $\mathfrak{T}$ ψ 2 ω' $\dot{\rho}$
3 $\mathfrak{T}$ ψ $'$ $\dot{\imath}$ $\mathfrak{r}$
3 $\tilde{E}$ $\dot{\rho}$ $\ddot{U}$ $\mathfrak{r}'$ $\odot$ $\dagger$ $\mathring{A}$ H
 $\tilde{E}$ $\mathring{A}$ 10 ω' $\tilde{E}$
 $\tilde{\imath}$

$\dot{E} = \dot{E}^{\text{ext}} + \dot{E}^{\text{int}}$,
 $1 \times 10^{36} \text{ erg s}^{-1} \approx 8,000 \times 10^{36} \text{ erg s}^{-1} \approx 18 \times 10^{36} \text{ erg s}^{-1}$

		□	- /		□
□	307,986,869	40.49%	4,444,444	312,431,313	41.07%
□	452,677,297	59.51%	-4,444,444	448,232,853	58.93%
	760,664,166	100%	-	760,664,166	100%

2 X ǎ 4,000' "H E 18 "H/
 f η M 222.2222' V'E
 ≈ ǁ 0.29%

M η G : 7/8 7/8 η
 'E' ĩ , ǎ

M ≠	ǁ		: ĩ + - /		
		□			□
□	307,986,869	40.49%	2,222,222	310,209,091	40.78%
□	452,677,297	59.51%	-2,222,222	450,455,075	59.22%
	760,664,166	100%	-	760,664,166	100%

ĩ r M γ M ¼‰

≠ G M 'E' ǁ ũ ŵ ǁ z
 ũ 2019 3 31 'E' 631,374.74' "H α' 'E'
 K ¼ 245,357.82' "H 403,365.56' "H X
 8,000' "H η α 2019 3 31 ǁ
 V'E' 1.26% V'E' α' 'E' K 3.26%
 V'E' 1.98%

'E' ǁ ǁ ĩ ũ 7/8 'E' ¼ 8,000' "H
 f ǁ γ G 4,000' "H M ǁ ψ 'E' ǁ ǁ
 , ũ ~ ≠ z ũ ǁ f ǁ ~
 E M ρ 'E' ǁ ψ ǁ ĩ No , 2019
 ǁ ǁ ψ 'E' 2019 β
 'E' M G : 7/8 7/8
 ≠ G ã η 'E' : L 0 z 'E' ǁ z 'E'

~	Ü	3	4	1	H	T	K	≠	4	K						
⇒	Đ															
E [~]	η	r	H		M	Б	Ψ	⊙	E [~]	~	⊢	z				
	z															
ŋ	⊙	E [~]	H	H				K		L _~	ĩ	ì	̄			
~		H	Ψ	Б	ℱ	M	=	E	⊙	ρ	γ	∨	E [~]	M		,
E [~]		H	Ψ	Б	ℱ	M	=	E	⊙	ρ	E [~]	H	H			
	K		L _~	ĩ	ì	̄		~	γ	∨	E [~]				Ŋ	
E [~]		K		L _~		⊙	№	≠	G	2019	1	24	2019	1		
25			ℱ	z	⊙			E [~]	520	'	330	'				
850	'	E [~]		K		L _~	̄	~			G	2019				
1	25		ℱ	z	⊙			E [~]	370	'		ĩ	r	ρ		
E [~]	G	2019	1	25		G	T	Ψ	⇒	3	H					
	www.cninfo.com.cn				~	G		K		L _~	ĩ	ì	̄		~	
					E		E	~	2019-012							
⊙	M	ĩ			E [~]	ì	r	H	H				H	Ψ	À	ℱ
	M	=	E	⊙	ρ	Б		ì	r	γ	∨	E [~]		4	Б	∨
Б	r			ρ		ĩ										
Ж	⊙	E [~]			K		L _~		5%	ℱ		K	ĩ	ì		
̄				6	⊙		∶	⅜	ĩ	r						
2019	5	8	E [~]		K		L _~		5%	ℱ						
K	ĩ	ì	̄		Ü	ℱ	ℙ		∶	⅜						
E [~]		K		L _~		⊙		Б		∶	M					
~																
E [~]	H	ì	•		⊙	•		⊙	ĩ	⊢						
⊙		2019	5	22	—	2019	11	21		ρ		∶				
Б	1,254,511		∨	E [~]		0.16%		ĩ	r	2019	4	26				

4 G : 7/8 7/8
 : 7/8 7/8 'E~ HΨ κ Ψ = :
 M l η ≠ F
 M 7/8
 ≠ τ 'E~ 'E~ k
 ω i 'E~ H

M D
 1 'E~ ∩ HΨ 'E M ≠ Ψ =
 2 'E~ H τ G ∩ HΨ 'E M ≠ Ψ τ H
 3 ρ H ∩ ∩
 'E

M 'E~ HΨ
 2019 5 8