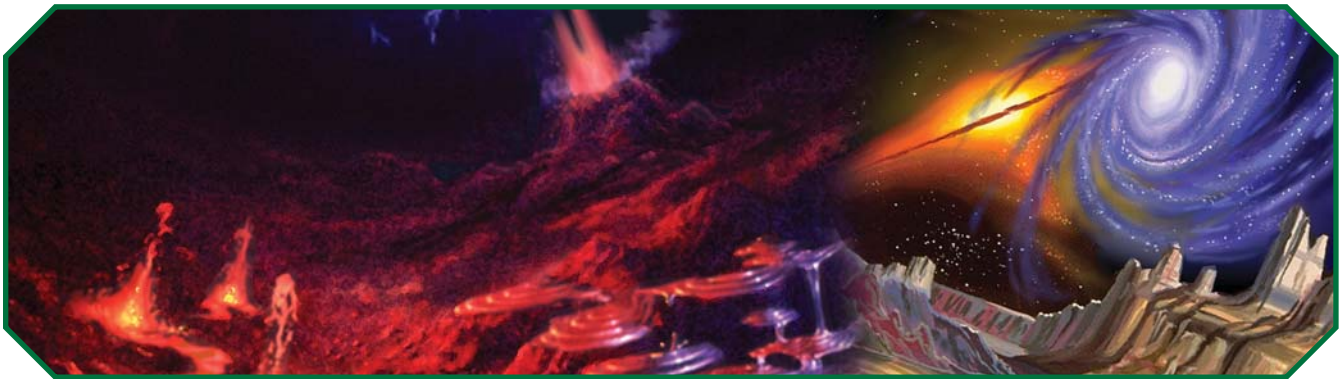


GURPS[®]

Fourth Edition

SPACE[™]

PLANETARY RECORD AND WORKSHEET



An e23 Sourcebook for GURPS[®] from Steve Jackson Games

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Based on material by JON F. ZEIGLER and
JAMES L. CAMBIAS

Edited by CHRIS AYLOTT

Graphic Design by JUSTIN DE WITT

Illustrated by ALAN GUTIERREZ

STEVE JACKSON GAMES



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These worksheets are designed to track the information generated by the world and system design rules in *GURPS Space*. Once you have compiled this information, you can note down the most important facts on the planetary record sheet (p. 14).

STEP 1: CONCEPT

see p. 74

STEP 2: WORLD TYPE

see pp. 74-77

Hostile Barren Garden

Tiny: Ice Rock Sulfur
Small: Hadean Ice Rock
Standard: Ammonia Chthonian Hadean
 Garden Greenhouse Ice
 Ocean
Large: Ammonia Chthonian Garden
 Greenhouse Ice Ocean
Special World
Type: Asteroid Belt Gas Giant

STEP 3: ATMOSPHERE

see pp. 78-81

Atmospheric Pressure: _____
 Atmospheric Composition: _____

Marginal Atmosphere?
 Chlorine or Fluorine High Carbon Dioxide
 High Oxygen Inert Gases
 Low Oxygen Nitrogen Compounds
 Organic Toxins Pollutants
 Sulfur Compounds Corrosive
 Suffocating

Toxic: Mildly Highly Lethally
 Effects:

Atmospheric Mass: _____

STEP 4: HYDROGRAPHIC COVERAGE

see pp. 81-82

Hydrographic Percentage: _____ %

Asteroid Belt, Tiny World, or Chthonian World: 0%.

Small (Ice) World: 2d×10%; maximum 100%.

Standard (Ice) or Large (Ice) World:
 (2d-10)×10%; minimum 0%.

Ammonia World: 2d×10%; maximum 100%.

Standard (Ocean) or Standard (Garden) World: (1d+4)×10%.

Large (Ocean) or Large (Garden) World:
 (1d+6)×10%; maximum 100%.

Greenhouse World: (2d-7)×10%; minimum 0%.

STEP 5: CLIMATE

see pp. 83-84

_____ × _____ + _____ = _____ K
 (3d-3) (step value) (minimum temp. range) Average Surface Temperature

Climate Type: _____ Temperature Range: _____ °F

_____ × [1 + (_____ × _____)] = _____
 (absorption factor) (atmospheric mass) (greenhouse factor) (blackbody correction)
 from Step 3

Blackbody Temperature (average surface temperature divided by blackbody correction): _____ K

STEP 6: WORLD SIZE

see pp. 85-87

Density: _____

Figuring World Diameter First:

Square root of (_____ / _____) × _____ = _____
 (blackbody temperature) (density) (minimum size) (minimum possible diameter)

Square root of (_____ / _____) × _____ = _____
 (blackbody temperature) (density) (maximum size) (maximum possible diameter)

_____ × _____ = _____
 (density) (diameter) (surface gravity)

Figuring Surface Gravity First:

Square root of (_____ × _____) × _____ = _____
 (blackbody temperature) (density) (minimum size) (minimum possible gravity)

Square root of (_____ × _____) × _____ = _____
 (blackbody temperature) (density) (maximum size) (maximum possible gravity)

_____ / _____ = _____
 (surface gravity) (density) (diameter)

Diameter: _____

Surface Gravity: _____

Planetary Record Map Hex Size: _____ mi. (diameter × 0.07)

STEP 7: RESOURCES AND HABITABILITY

see pp. 87-88

Overall Value:

Resource Value Modifier (RVM): _____

+ Habitability Score: _____

= Affinity Modifier: _____

STEP 8: SETTLEMENT TYPE

see pp. 89-90

- | | |
|---|--|
| <input type="checkbox"/> Homeworld
<input type="checkbox"/> Colony
<input type="checkbox"/> Uninhabited | <input type="checkbox"/> Outpost: Military
<input type="checkbox"/> Outpost: Way Station
<input type="checkbox"/> Other Outpost: _____ |
|---|--|

STEP 9: TECHNOLOGY LEVEL

see pp. 90-91

Setting TL: _____ World TL: _____ Advanced
 Delayed

STEP 10: POPULATION

see pp. 91-93

_____ × _____ × _____ = _____
 (base carrying capacity) (affinity modifier) (world's diameter) (carrying capacity)
from Step 7 from Step 6

Carrying Capacity for aliens with special needs:

Current Population: _____ Population Rating: _____

STEP 11: SOCIETY TYPE

see pp. 93-94

- | | | |
|--|---|---------------------------------------|
| <input type="checkbox"/> Anarchy | <input type="checkbox"/> Caste | <input type="checkbox"/> Clan/Tribal |
| <input type="checkbox"/> Corporate State | <input type="checkbox"/> Democracy | <input type="checkbox"/> Dictatorship |
| | <input type="checkbox"/> Athenian | |
| | <input type="checkbox"/> Representative | |
| <input type="checkbox"/> Feudal | <input type="checkbox"/> Technocracy | <input type="checkbox"/> Theocracy |

World Unity:

- | | |
|------------------------------------|---|
| <input type="checkbox"/> Diffuse | <input type="checkbox"/> Factionalized |
| <input type="checkbox"/> Coalition | <input type="checkbox"/> World Government |

Special Conditions:

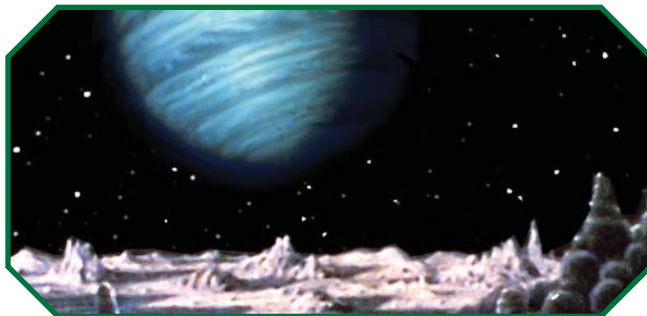
- | | | |
|--------------------------------------|--------------------------------------|--|
| <input type="checkbox"/> Bureaucracy | <input type="checkbox"/> Colony | <input type="checkbox"/> Cybercracy |
| <input type="checkbox"/> Matriarchy | <input type="checkbox"/> Meritocracy | <input type="checkbox"/> Military Government |
| <input type="checkbox"/> Oligarchy | <input type="checkbox"/> Patriarchy | <input type="checkbox"/> Sanctuary |
| <input type="checkbox"/> Socialist | <input type="checkbox"/> Subjugated | <input type="checkbox"/> Utopia |

STEP 12: CONTROL RATING

see pp. 94-95

Overall Rating: _____

Split Ratings: _____



STEP 13: ECONOMICS

see pp. 95-96

$$\text{(base per-capita income)} + \text{(total income modifiers)} = \text{(per-capita income)}$$

$$\text{Final per-capita income} / \text{base per-capita income} = \text{(ratio)}$$

Typical Wealth Level: _____ (based on ratio above)

Economic Volume: _____ = per-capita income × population (from Step 10)



STEP 14: BASES AND INSTALLATIONS

see pp. 96-98

Spaceports

- Class V: Full Facilities (Requires high trade, or PR6+ and a roll of PR+2 or less)
- Class IV: Standard Facilities (Requires high trade, or PR6+ and a roll of PR+5 or less)
- Class III: Local Facilities (Requires moderate trade, or a roll of PR+8 or less)
- Class II: Frontier Facilities (Present on a roll of PR+7 or less)
- Class I: Emergency Facilities (Present on a roll of 14 or less)
- Class 0: No Facilities

Installations

- Alien Enclave (Present on a roll of 6 or less)
- Black Market (Present on a roll of 9-CR or less)
- Colonial Office
(Present if PR 3+, on a roll of PR+4 or less)
- Corporate Headquarters
(Present if PR 6+, TL7+, on a roll of PR+3 or less)
PR: _____ (1d-3)
- Criminal Base (Present on a roll of PR+3 or less)
PR: _____ (1d-3)

- Espionage Facility (Present on roll of PR+6 or less)
Type: _____
(1-4: civilian, 5: friendly military, 6: enemy military)
PR: _____ (1d-4 if civilian, 1d-2 if military)

Additional Facilities

(continue rolling until a roll fails):

- | | |
|-------------|-----------|
| Type: _____ | PR: _____ |
| Type: _____ | PR: _____ |
| Type: _____ | PR: _____ |
| Type: _____ | PR: _____ |

- Government Research Station
(Present on a roll of 12 or less)
PR: _____ (1d-4) Secret
(Roll 1d, station is secret on 1-2)
Second Government Research Station
(If first station exists, on a roll of PR or less)
PR: _____ (1d-4) Secret
(Roll 1d, station is secret on 1-2)

- Mercenary Base (Present on a roll of PR+3 or less)
PR: _____ (1d-3)
- Nature Preserve
(Present on a roll of 12-PR or less)
- Naval Base
(Present if there is a Class V starport, or on a roll of PR+3 or less)
PR: _____ (1d-1)
- Patrol Base
(Present if there is a Class IV or V starport, or on a roll of PR+4 or less)
PR: _____ (1d-2)
- Pirate Base (Present on a roll of 8-CR or less)
Pirate Base PR: _____ (1d-3)

- Private Research Center
(Present on a roll of PR+4 or less)
PR: _____ (1d-4)
Additional Private Research Center
(roll PR+4 or less again, if there is one center)
PR: _____ (1d-4)
Additional Private Research Center
(roll PR+4 or less again, if there are two centers)
PR: _____ (1d-4)
- Rebel or Terrorist Base (Present on a roll of 9 or less)
PR: _____ (1d-3)
- Refugee Camp (Present on a roll of PR-3 or less)
PR: _____ (1d-3)
Additional Camps
(continue rolling until a roll fails):
PR: _____ PR: _____
PR: _____ PR: _____
- Religious Center (Present on a roll of PR-3 or less)
PR: _____ (1d-3)
- Special Justice Group Office
(Present on a roll of PR or less)
PR: _____ (1d-3) Covert
(Roll 1d, office is covert on 1 or 2)
- Survey Base
(Present if there is a Class IV or V spaceport, on a roll of PR+3 or less)
PR: _____ (1d-3)
- University (Present on a roll of PR-6 or less)
PR: _____
(Roll 1d; PR 3 on 1 or 2, PR 4 on 3 or 4 PR 5 on 5 or 6)
- Prison
(Present only if there are no other installations, on a roll of 10-PR or less)
Prison Base PR: _____ (1d-3)



STEP 15: NUMBER OF STARS

see p. 100

First Star: _____

Second Star: _____

Third Star: _____

STEP 16: STAR MASSES

see p. 101

STEP 17: STAR SYSTEM AGE

see pp. 101-102

Population: _____ + _____ + _____ = Age: _____
(base age) (step A) (step B)

STEP 18: STELLAR CHARACTERISTICS

see pp. 102-105

Star	Type	Temp	L-Min	L-Max	M-Span	S-Span	G-Span
1	_____	_____	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____	_____	_____

Star	Current Stage	Luminosity	Temperature	Radius
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____

STEP 19: COMPANION STAR ORBITS

see pp. 105-106

Star	Separation	Radius Multiplier	Eccentricity	Minimum Separation	Maximum Separation
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____

STEP 20: LOCATE ORBITAL ZONES

see pp. 106-107

Inner Limit Radius: _____
Outer Limit Radius: _____
Snow Line: _____

Forbidden Orbits

Inner Edge: _____
Outer Edge: _____

STEP 21: PLACING FIRST PLANETS

see pp. 107-108

First Gas Giant Orbital Radius: _____

Pre-Designed World Orbital Radius: _____



STEP 22: PLACE PLANETARY ORBITS

see pp. 108-109

Inward	Outward
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

STEP 23: PLACE WORLDS

see pp. 109-111

Planet Number	Orbital Radius	Type	Size
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____
11.	_____	_____	_____
12.	_____	_____	_____
13.	_____	_____	_____
14.	_____	_____	_____

STEP 24: PLACE MOONS

see pp. 111-112

Planet	Inner Moonlets	Rings?	Major Moons (Size Class)	Outer Moonlets
1.	_____	<input type="checkbox"/>	_____	_____
2.	_____	<input type="checkbox"/>	_____	_____
3.	_____	<input type="checkbox"/>	_____	_____
4.	_____	<input type="checkbox"/>	_____	_____
5.	_____	<input type="checkbox"/>	_____	_____
6.	_____	<input type="checkbox"/>	_____	_____
7.	_____	<input type="checkbox"/>	_____	_____
8.	_____	<input type="checkbox"/>	_____	_____
9.	_____	<input type="checkbox"/>	_____	_____
10.	_____	<input type="checkbox"/>	_____	_____
11.	_____	<input type="checkbox"/>	_____	_____
12.	_____	<input type="checkbox"/>	_____	_____
13.	_____	<input type="checkbox"/>	_____	_____
14.	_____	<input type="checkbox"/>	_____	_____

STEP 25: WORLD TYPES

see pp. 113-114

Planet	Blackbody Temperature	World Type
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____
13.	_____	_____
14.	_____	_____

STEP 26: ATMOSPHERE

see p. 114
see also pp. 78-81

Orbit	Atmospheric Pressure	Composition Marginal?	Corrosive	Suffocating	Toxicity
1.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
7.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
8.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
9.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
10.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
11.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
12.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
13.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
14.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____

STEP 39: BASES AND INSTALLATIONS

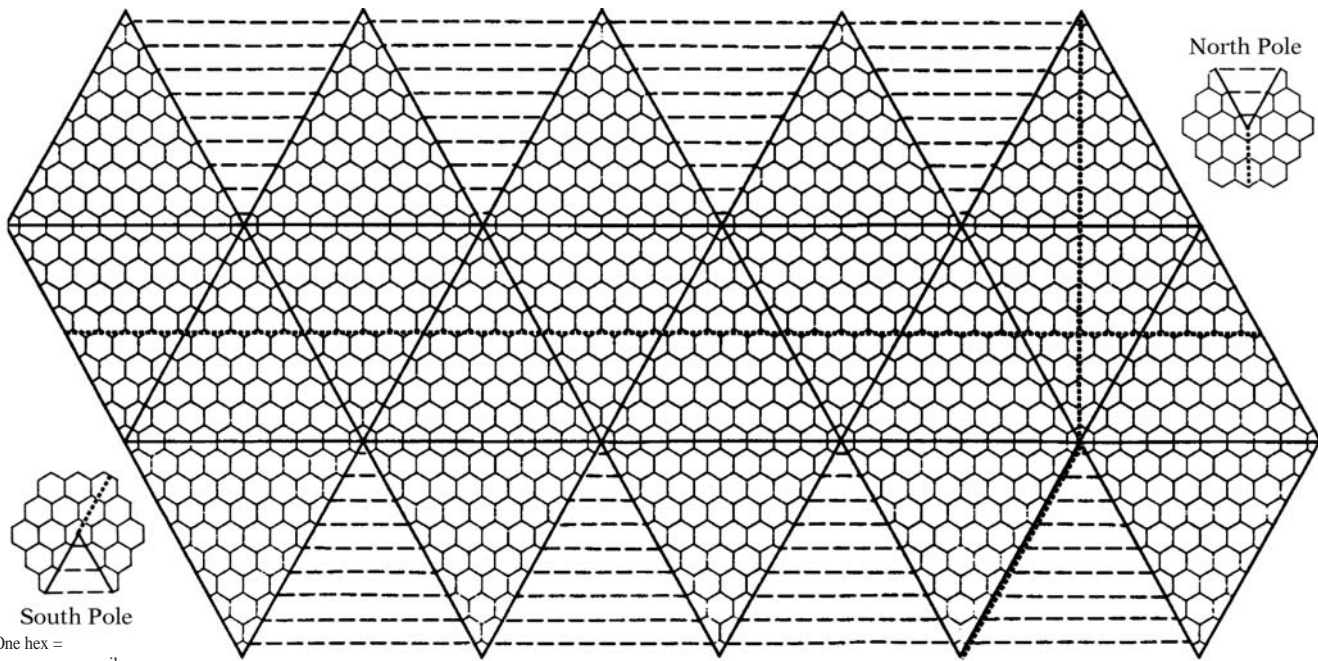
see p. 123
see also pp. 96-98

Planet or Moon

Facility					
Spaceport Class V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spaceport Class IV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spaceport Class III	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spaceport Class II	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spaceport Class I	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alien Enclave	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Black Market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Colonial Office	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Corporate Headquarters	_____	_____	_____	_____	_____
Criminal Base	_____	_____	_____	_____	_____
Espionage Facility	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____
Government Research Station	_____	_____	_____	_____	_____
Mercenary Base	_____	_____	_____	_____	_____
Nature Preserve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Naval Base	_____	_____	_____	_____	_____
Patrol Base	_____	_____	_____	_____	_____
Pirate Base	_____	_____	_____	_____	_____
Prison	_____	_____	_____	_____	_____
Private Research Center	_____	_____	_____	_____	_____
Rebel or Terrorist Base	_____	_____	_____	_____	_____
Refugee Camp	_____	_____	_____	_____	_____
Religious Center	_____	_____	_____	_____	_____
Special Justice Group Office	_____	_____	_____	_____	_____
Survey Base	_____	_____	_____	_____	_____
University	_____	_____	_____	_____	_____

ADDITIONAL NOTES:

PLANETARY RECORD



South Pole
One hex = _____ miles

World Type: _____ Diameter: _____ mi. Gravity: _____ G Density: _____
 Axial Tilt: _____ ° Atmospheric Pressure: _____ Atmospheric Composition: _____
 Hydrographic %: _____ Climate Type: _____ Temperature Range: _____
 Resource Value Modifier: _____ Habitability Score: _____

Biosphere:

Dominant Life Form: _____
 Other Significant Life Forms: _____

Settlement Type:

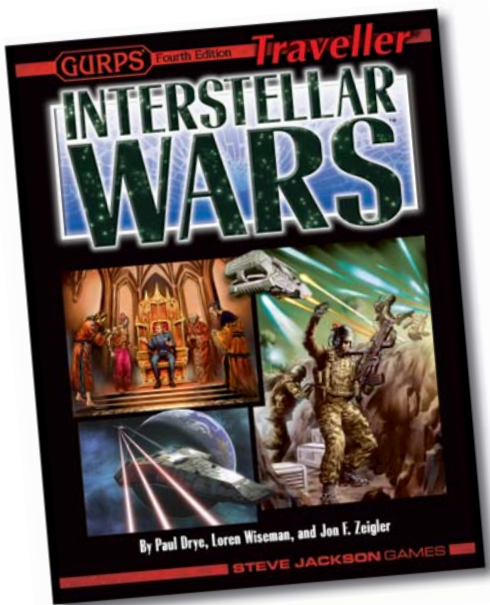
Population: _____ Tech Level(s): _____ Control Rating: _____
 Society Type: _____ World Unity: _____ Special Conditions: _____
 Per-Capita Income: _____ Economic Volume: _____ Typical Wealth Level: _____
 Major Trading Partners: _____
 Starports: _____
 Installations: _____
 Moon(s): _____
 Other Notes: _____

System Information:

Star Name: _____ Type: _____ Luminosity: _____ Location: _____
 Companion Star(s): _____ Number of Planets: _____

Planet	Name	Orbital Radius	Type	Diameter	Density	Gravity	Atmosphere	Notes
1.	_____	_____	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____	_____	_____	_____
11.	_____	_____	_____	_____	_____	_____	_____	_____
12.	_____	_____	_____	_____	_____	_____	_____	_____
13.	_____	_____	_____	_____	_____	_____	_____	_____
14.	_____	_____	_____	_____	_____	_____	_____	_____

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