

University of Nevada, Reno

Slots 101

Presented by:

Ken Moberly

Understanding the PAR Sheet

PAR Sheet:

The manufacturer's theoretical hold
computation work sheet.

PAR - Probability and Accounting Report

IGT Red, White & Blue

- ◆ 3-reel
- ◆ 64-stop
- ◆ 2-coin multiplier
- ◆ Program - SS3285

- ◆ \$1.00 denomination
(for ease of calculations)



Coin Multiplier Game



RED WHITE & BLUE™

MADE WITH PRIDE IN MICHIGAN, U.S.A.

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1ST COIN WINNERS

7	7	7	400
7	7	7	250
7	7	7	200
7	7	7	150
ANY 7	ANY 7	ANY 7	80
BAR	BAR	BAR	50
BAR	BAR	BAR	40
BAR	BAR	BAR	25

2ND COIN WINNERS

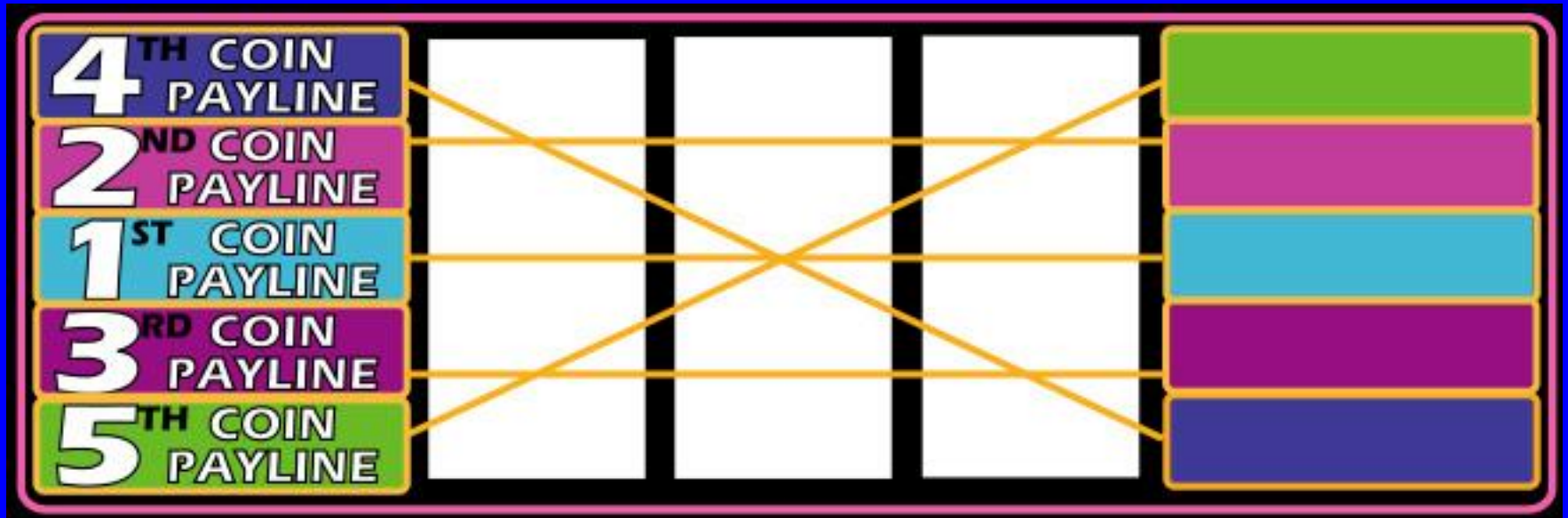
7	7	7	
7	7	7	
7	7	7	400
7	7	7	300
ANY 7	ANY 7	ANY 7	160
BAR	BAR	BAR	100
BAR	BAR	BAR	80
BAR	BAR	BAR	50

ANY RED	ANY WHITE	ANY BLUE	20
BAR	BAR	BAR	10
ANY BAR	ANY BAR	ANY BAR	5
ANY RED	ANY RED	ANY RED	2
ANY WHITE	ANY WHITE	ANY WHITE	2
ANY BLUE	ANY BLUE	ANY BLUE	2
BLANK	BLANK	BLANK	1

ANY RED	ANY WHITE	ANY BLUE	40
BAR	BAR	BAR	20
ANY BAR	ANY BAR	ANY BAR	10
ANY RED	ANY RED	ANY RED	4
ANY WHITE	ANY WHITE	ANY WHITE	4
ANY BLUE	ANY BLUE	ANY BLUE	4
BLANK	BLANK	BLANK	2

RED WHITE & BLUE™

Line Game



Reel Strip Number 3285 HOLD % 5.325 Denomination:
 MODEL #:

90% Confidence value, 10,000,000 pulls - LOW %: 94.32 HIGH %: 95.03

COIN #	PERCENT PAY BACK	HIT FREQ	TOTAL HITS	TOTAL PAYS	SYM	NUMBER / REEL
						R1 R2 R3
1	94.370%	16.335%	42820.	247384.	~~	24 28 29
2	94.675%	16.335%	42820.	496368.	B7	8 2 2
					HB	12 4 9
					RB	4 12 12
					BB	12 12 4
					H7	2 2 6
					R7	2 4 2

This is a 3 reel, 2 coin, 64 stop machine. Reel Combos: 262144.

Payback %:

The theoretical percent of coins played that are won by the player.

◆ $100\% - \text{Hold \%} = \text{Payback \%}$

◆ $100\% - 5.325\% = 94.675\%$

Hold %:

The theoretical percent of coins played that are retained or won by the slot machine.

(**PAR** also refers to the casino hold percentage.)

◆ $100\% - \text{Payback \%} = \text{Casino Hold \%}$

◆ **SS3285** Payback %: 94.675%

$$100\% - 94.675\% = 5.325\%$$

Reel symbols / Stops:

- ◆ A reel symbol is an icon that marks a location on a reel strip *and/or* that graphically represents a software function.
- ◆ A stop is a designated location on the reel strip for a symbol *and* a physical stopping location on the reel glass.



Reel symbols / Stops cont:

- ◆ A reel symbol is an icon that marks a location on a reel strip or that graphically represents a software function.
- ◆ A stop is a designated location on the reel strip for a symbol *and* a physical location on the reel glass.
- ◆ The PAR sheet displays the number of reel strip symbols per reel, the location of the symbols and the number of stops.

PHYSICAL REEL STRIP LISTING

REEL STRIP #: 3285

Line #	1	~~	~~	~~
Line #	2	B7	B7	H7
Line #	3	~~	~~	~~
Line #	4	HB	RB	RB
Line #	5	~~	~~	~~
Line #	6	BB	BB	HB
Line #	7	~~	~~	~~
Line #	8	R7	H7	B7
Line #	9	~~	~~	~~
Line #	10	BB	BB	HB
Line #	11	~~	~~	~~
Line #	12	HB	RB	RB
Line #	13	~~	~~	~~
Line #	14	B7	B7	H7
Line #	15	~~	~~	~~
Line #	16	HB	RB	RB
Line #	17	~~	~~	~~
Line #	18	BB	BB	HB
Line #	19	~~	~~	~~
Line #	20	H7	R7	R7
Line #	21	~~	~~	~~
Line #	22	RB	HB	BB

3	3	3
4	4	4
4	5	5
9	0	1

Reel Strip Number 3285 HOLD % 5.325 Denomination:
 MODEL #:

90% Confidence value, 10,000,000 pulls - LOW %: 94.32 HIGH %: 95.03

COIN #	PERCENT PAY BACK	HIT FREQ	TOTAL HITS	TOTAL PAYS	SYM	NUMBER R1	NUMBER R2	NUMBER R3
1	94.370%	16.335%	42820.	247384.	~~	24	28	29
2	94.675%	16.335%	42820.	496368.	B7	8	2	2
					HB	12	4	9
					RB	4	12	12
					BB	12	12	4
					H7	2	2	6
					R7	2	4	2

This is a 3 reel, 2 coin, 64 stop machine. Reel Combos: 262144.

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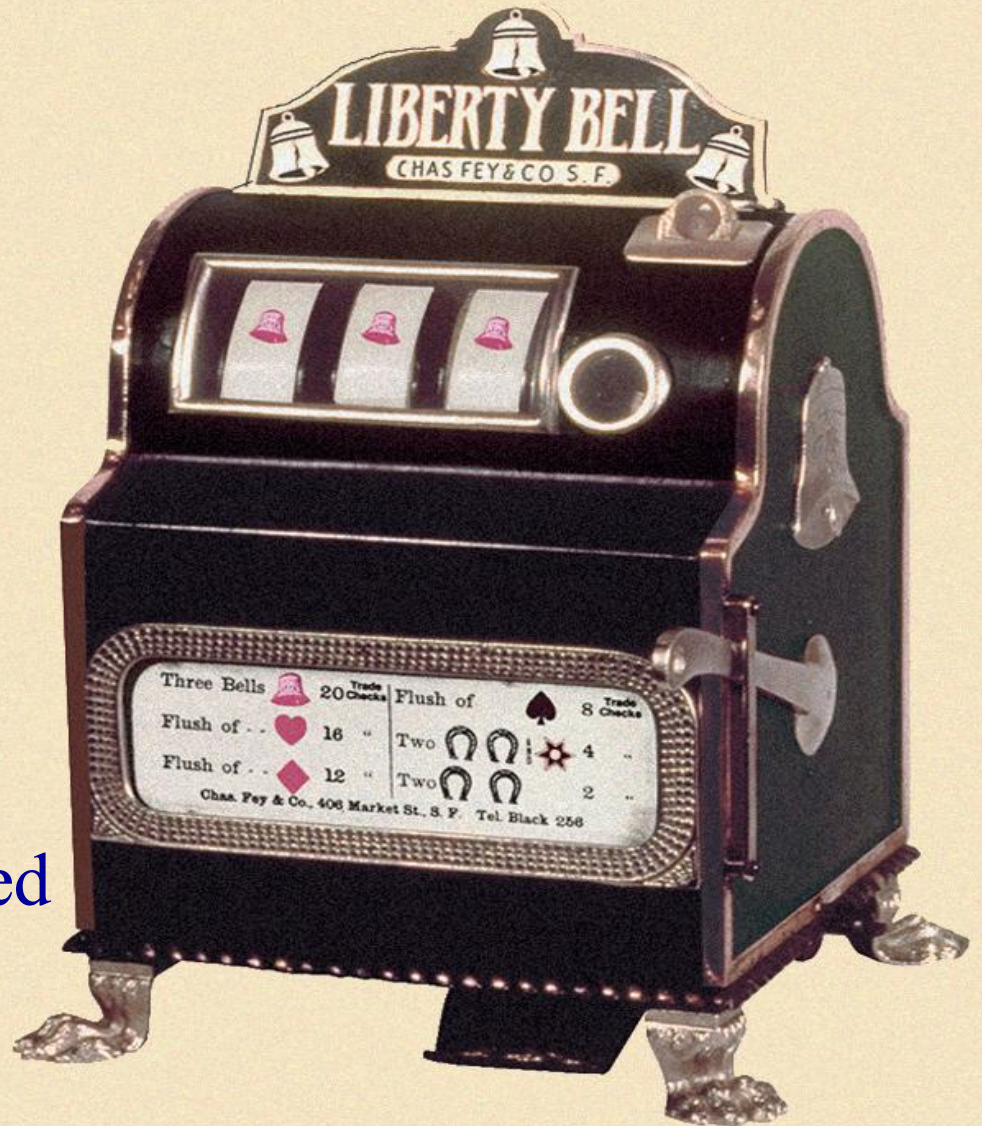
This is a 3 reel, 2 coin, 64 stop machine. Reel Combos: 262144.

IGT Red, White & Blue:

- ◆ **SS3285:** 22 physical symbols/stops
64 computer symbols/stops

Fey Liberty Bell

- ◆ 1899
- ◆ 3 reels side-by-side
- ◆ 10 stops
- ◆ First to use the bell symbol
- ◆ First to separate tokens and coins
- ◆ First to use “weighted mapping”

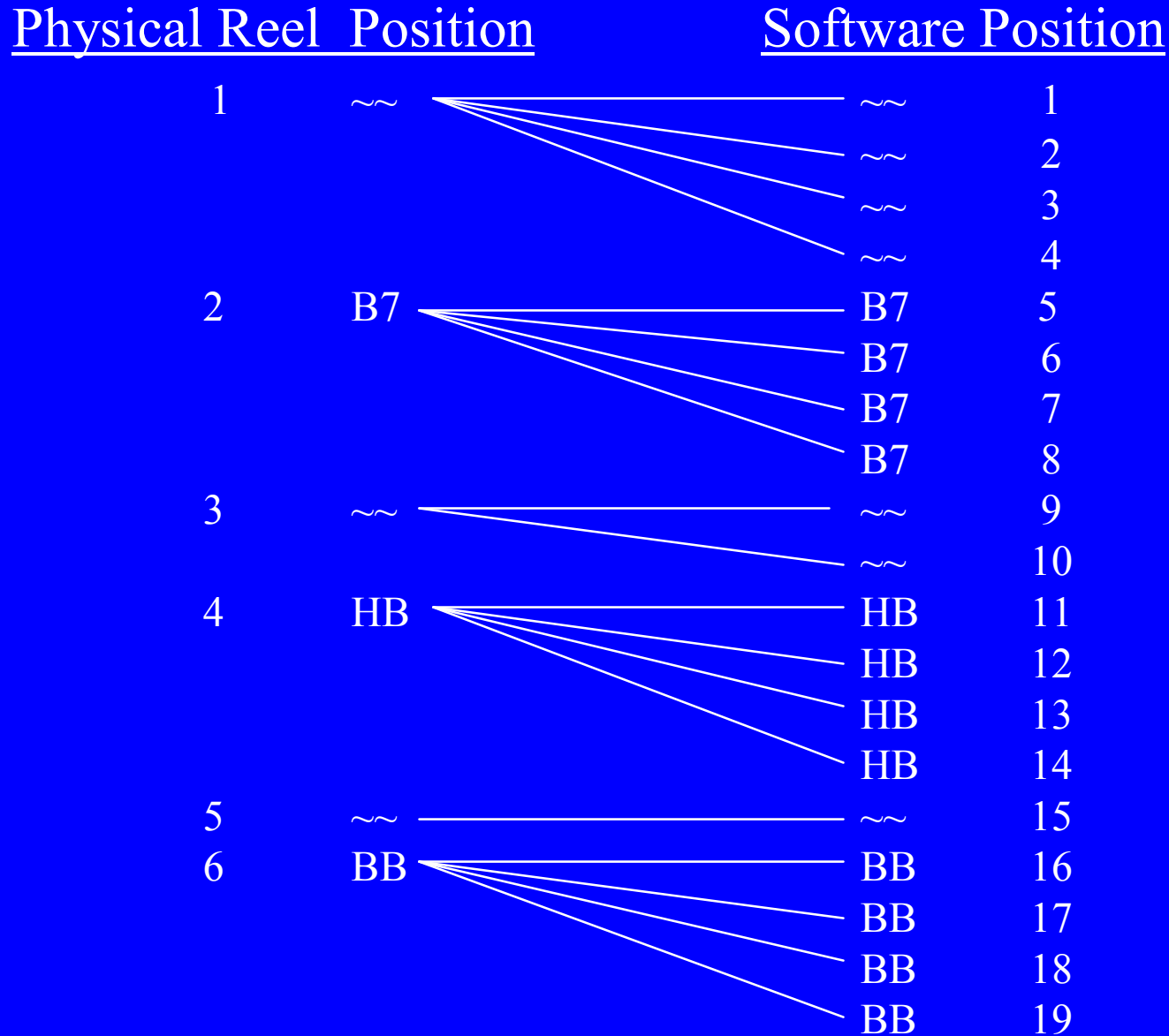


Expanded Reel:

Slot machine in which the number of reel stops in the computer program is greater than the number of stops on the actual reels on the machine.

SS:3285

Expanded First Reel



Game Cycle &

Total Reel Combinations:

Total number of all possible combinations of reel stops.

◆ **SS3285**: 3 reel, 64 stop game

$64 \times 64 \times 64 = 262,144$ reel combinations
per cycle

AC Coin Bewitched Nosy Neighbor*

- ◆ October 2004
- ◆ 5-reel
- ◆ 15-line, 5-coin multiplier (75 coins)
- ◆ Stops: 52x53x52x52x53
394,967,872 reel combinations
- ◆ IGT iGame Plus platform
- ◆ Bonus feature
- ◆ Progressive feature

*Gladys Kravitz



Weighted Mapping:

Marketing tool used to position symbols into the best customer's view.

- ◆ First used in 1899 on Fey's Bell slot machine.
- ◆ Used on **SS3285** for positioning of blanks surrounding the Red, White, and Blue "7"s.

Reel Strip Number 3285 HOLD % 5.325 Denomination:
 MODEL #:

90% Confidence value, 10,000,000 pulls - LOW %: 94.32 HIGH %: 95.03

COIN #	PERCENT PAY BACK	HIT FREQ	TOTAL HITS	TOTAL PAYS	SYM	NUMBER/REEL
					BOL	R1 R2 R3
1	94.370%	16.335%	42820.	247384.	~~	24 28 29
2	94.675%	16.335%	42820.	496368.	B7	8 2 2
					HB	12 4 9
					RB	4 12 12
					BB	12 12 4
					H7	2 2 6
					R7	2 4 2

This is a 3 reel, 2 coin, 64 stop machine. Reel Combos: 262144.



EXPANDED REEL STRIP LISTING

REEL STRIP #: 3285

```

Line #  1  ~ ~ ~ ~
Line #  2  ~ ~ ~ ~
Line #  3  ~ ~ ~ ~
Line #  4  ~ ~ ~ ~
Line #  5  B7 B7 H7
Line #  6  B7 ~ ~ H7
Line #  7  B7 ~ ~ H7
Line #  8  B7 ~ ~ ~ ~
Line #  9  ~ ~ RB ~ ~
Line # 10  ~ ~ RB RB
Line # 11  HB RB RB
Line # 12  HB RB RB
Line # 13  HB ~ ~ RB
Line # 14  HB BB ~ ~
Line # 15  ~ ~ BB HB
Line # 16  BB BB HB
Line # 17  BB BB HB
Line # 18  BB ~ ~ ~ ~
Line # 19  BB ~ ~ ~ ~
Line # 20  ~ ~ ~ ~ ~ ~
Line # 21  ~ ~ ~ ~ ~ ~
Line # 22  ~ ~ H7 B7
Line # 23  ~ ~ H7 B7
Line # 24  R7 ~ ~ ~ ~
Line # 25  R7 ~ ~ ~ ~
Line # 26  ~ ~ ~ ~ ~ ~
Line # 27  ~ ~ ~ ~ ~ ~
Line # 28  ~ ~ BB HB
Line # 29  ~ ~ BB HB
Line # 30  BB BB HB
Line # 31  BB BB ~ ~
Line # 32  BB ~ ~ ~ ~
Line # 33  BB RB RB
Line # 34  ~ ~ RB RB
Line # 35  HB RB RB
Line # 36  HB RB RB
Line # 37  HB ~ ~ ~ ~
Line # 38  HB ~ ~ ~ ~
Line # 39  ~ ~ B7 H7
Line # 40 B7 ~ ~ H7
Line # 41 B7 ~ ~ H7
Line # 42 B7 RB ~ ~
Line # 43 B7 RB ~ ~
Line # 44 ~ ~ RB RB
Line # 45 HB RB RB
Line # 46 HB ~ ~ RB
Line # 47 HB BB RB
Line # 48 HB BB ~ ~
Line # 49 ~ ~ BB HB
Line # 50 BB BB HB
Line # 51 BB ~ ~ HB
Line # 52 BB ~ ~ ~ ~
Line # 53 BB R7 ~ ~
Line # 54 ~ ~ R7 ~ ~
Line # 55 H7 R7 R7
Line # 56 H7 R7 R7
Line # 57 ~ ~ ~ ~ ~ ~
Line # 58 ~ ~ ~ ~ ~ ~
Line # 59 ~ ~ ~ ~ ~ ~
Line # 60 ~ ~ ~ ~ ~ ~
Line # 61 RB HB BB
Line # 62 RB HB BB
Line # 63 RB HB BB
Line # 64 RB HB BB

```

	3	3	3
	4	4	4
	4	5	5
	9	0	1

PAY COMBO	# PER REEL	HITS	PULLS/HIT	PAYS	TOTAL PAY
~~ ~~~	24 28 29	19488.	13.	1.	19488.
AL AL AL	20 14 6	1072.	245.	2.	2144.
AW AW AW	14 6 15	804.	326.	2.	1608.
AR AR AR	6 16 14	752.	349.	2.	1504.
AB AB AB	28 28 25	17952.	15.	5.	89760.
RB RB RB	4 12 12	576.	455.	10.	5760.
AR AW AL	6 6 6	144.	1820.	20.	2880.
HB HB HB	12 4 9	432.	607.	25.	10800.
BB BB BB	12 12 4	576.	455.	40.	23040.
RB HB BB	4 4 4	64.	4096.	50.	3200.
A7 A7 A7	12 8 10	880.	298.	80.	70400.
B7 B7 B7	8 2 2	32.	8192.	150.	4800.
H7 H7 H7	2 2 6	24.	10923.	200.	4800.
R7 R7 R7	2 4 2	16.	16384.	250.	4000.
			Coin # 2	500P	
R7 H7 B7	2 2 2	8.	32768.	400.	3200.
			Coin # 2	1000P	
			+ Total Coins Paid		247384.
Total hits		42820.			

Review: Jackpot Hits

Number of times a certain jackpot combination theoretically lines up during a machine cycle.

◆ **SS3285** top jackpot award:

Red 7 x White 7 x Blue 7

$2 \times 2 \times 2 = 8$ top JP hits

PAY COMBO	# PER REEL	HITS	PULLS/HIT	PAYS	TOTAL PAY
~~ ~~~	24 28 29	19488.	13.	1.	19488.
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R7 R7 R7	2 4 2	16.	16384.	250.	4000.
			Coin # 2	500P	
R7 H7 B7	2 2 2	8.	32768.	400.	3200.
			Coin # 2	1000P	
			Total Coins Paid		247384.

Total hits 42820.

Review: Total Hits

The sum total of all hitting combinations with a pay in the machine cycle.

◆ **SS3285**: 42,820 hitting combinations

◆ Number of non-hitting combinations:

$$(262,144 - 42,820 = 219,324)$$

Reel Strip Number 3285 HOLD % 5.325 Denomination:
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					H7	2 2 6
					R7	2 4 2

This is a 3 reel , 2 Coin 64 stop machine. Reel Combos : 262144.

Hit Frequency:

Theoretical percentage of plays with a pay (hit).

◆ (Number of Total Hitting Combinations with a Pay ÷ Game Cycle) x 100

◆ **SS3285:**

$$(42,820 \div 262,144) \times 100 = 16.335\%$$

Hit Frequency

Review: Pulls per Hit

The number of handle pulls between certain jackpot combinations.

◆ $\text{Machine Cycle} \div \text{Number of Jackpot Hits} =$
handle pulls per top Jackpot

PAY COMBO	# PER REEL	HITS	PULLS/HIT	PAYS	TOTAL PAY
~~ ~~~	24 28 29	19488.	13.	1.	19488.
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			Coin # 2	500P	
R7 H7 B7	2 2 2	8.	32768.	400.	3200.
			Coin # 2	1000P	
			Total Coins Paid		247384.
		Total hits			42820.

Review: Pulls per Hit

The number of handle pulls between certain jackpot combinations.

◆ $\text{Machine Cycle} \div \text{Number of Jackpot Hits} =$
handle pulls per top Jackpot

◆ **SS3285**: Red, White & Blue “7” jackpot

$262,144 \div 8 = 32,768$ handle pulls per
top Jackpot

PAY COMBO	#	PER	REEL	HITS	PULLS/HIT	PAYS	TOTAL PAY
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H7 H7 H7	2	2	6	24.	10923.	200.	4800.
R7 R7 R7	2	4	2	16.	16384.	250.	4000.
					Coin #	2	500P
R7 H7 B7	2	2	2	8.	32768.	400.	3200.
					Coin #	2	1000P
					Total Coins Paid		247384.

Total hits 42820.

Review: Total Coins Paid

The sum total of all hitting combinations multiplied times the coins paid for each hitting combination.

◆ **SS3285:** 247,384 total coins paid per cycle.

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					BB	12 12 4
					H7	2 2 6
					R7	2 4 2

This is a 3 reel , 2 Coin 64 stop machine. Reel Combos : 262144.

Base Payback Percentage:

The theoretical payback percentage of the base game (1st coin) *before bonuses*.

◆ $(\text{Total Pays} \div \text{Reel Combinations}) \times 100$

◆ **SS3285:**

$$(247,384 \div 262,144) \times 100 =$$

94.37% 1st coin payback %

or base payback %

Bonus:

The additional coin amount added to the jackpot payout to entice maximum coin play,

or; to award the winner for playing the maximum number of coins.

IGT Red, White & Blue

- ◆ 3-reel
- ◆ 64-stop
- ◆ 2-coin multiplier
- ◆ Program - SS3285
- ◆ \$1.00 denomination
(for ease of calculations)



Calculating the bonus:

◆ [Maximum Coin Jackpot - (First Coin Jackpot x Maximum # of Coins)] x # of Jackpot Hits

◆ **SS3285:**

$$1,000 - (400 \times 2) =$$

$$1,000 - 800 = 200 \text{ coin bonus per hit}$$

$$200 \text{ coin bonus per hit} \times 8 \text{ jackpot hits} =$$

$$1,600 \text{ coin bonus}$$

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H7 H7 H7	2	2	6	24.	10923.	200.	4800.
R7 R7 R7	2	4	2	16.	16384.	250.	4000.
					Coin #	2	500P
R7 H7 B7	2	2	2	8.	32768.	400.	3200.
					Coin #	2	1000P
					Total Coins Paid		247384.

Total hits 42820.

Calculating the bonus:

◆ [Maximum Coin Jackpot - (First Coin Jackpot x Maximum # of Coins)] x # of Jackpot Hits

◆ **SS3285:**

$$1,000 - (400 \times 2) =$$

$$1,000 - 800 = 200 \text{ coin bonus per hit}$$

$$200 \text{ coin bonus per hit} \times 8 \text{ jackpot hits} =$$

$$1,600 \text{ coin bonus}$$

Maximum Coin Payback Percentage:

The theoretical percentage of coin-in paid back to the customer including bonuses with maximum coins bet.

$$\begin{aligned} \blacklozenge \quad & \{[(\text{Total Base Pays} \times \text{Max Coin}) + \text{bonuses}] \div \\ & (\text{Total Reel Combinations} \times \text{Max Coin})\} \times 100 = \\ & \text{max coin Payback \%} \end{aligned}$$

PAY COMBO	#	PER REEL	HITS	PULLS/HIT	PAYS	TOTAL PAY
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R7 R7 R7	2	4 2	16.	16384.	250.	4000.
				Coin # 2	500P	
R7 H7 B7	2	2 2	8.	32768.	400.	3200.
				Coin # 2	1000P	
Total Coins Paid						247384.

Total hits 42820.

Maximum Coin Payback Percentage cont:

The theoretical percentage of coin-in paid back to the customer including bonuses with maximum coins bet.

$$\blacklozenge \left\{ \frac{[(\text{Total Base Pays} \times \text{Max Coin}) + \text{bonuses}]}{(\text{Total Reel Combinations} \times \text{Max Coin})} \right\} \times 100$$

SS3285:

$$\left\{ \frac{[(247,384 \times 2) + 1,600]}{(262,144 \times 2)} \right\} \times 100 =$$

$$(496,368 \div 524,288) \times 100 = 94.675\% \text{ max coin payback \%}$$

How payback percentages are changed:



Change the payback percentage:

- ◆ Add or remove pay combinations
- ◆ Add or subtract payout amounts
- ◆ Change the bonus amount
 - Increase, decrease or remove the bonus award
 - Add or reduce the number of bonuses

5-line Game Bonus Feature

4TH COIN PAYLINE				5,000
2ND COIN PAYLINE				1,600
1ST COIN PAYLINE				800
3RD COIN PAYLINE				2,400
5TH COIN PAYLINE				3,200

5-line Game Bonus Feature

- ◆ Line 1 to line 2 = 800 coin bonus
 - ◆ Line 2 to line 3 = 800 coin bonus
 - ◆ Line 3 to line 4 = 800 coin bonus
 - ◆ Line 4 to line 5 = 800 coin bonus
 - ◆ Line 5 = 1,000 coin additional bonus
- Total bonus = 4,200 coins

Change the payback percentage cont:

- ◆ Add or remove pay combinations
- ◆ Add or subtract payout amounts
- ◆ Change the bonus amount
 - Increase or decrease the bonus amount
 - Add or reduce the number of bonuses
- ◆ Increase or decrease the number of symbols for each pay combination
- ◆ Increase or decrease the number of total combinations

Jackpot Odds:

Theoretical odds of hitting a certain jackpot on any given handle pull or game hand.

- ◆ Number of JP Hits \div Game Cycle =
odds to hit an award
- ◆ **SS3285**: Odds to hit the “Red, White, Blue 7” jackpot:

$$8 \div 262,144 = .0000305 \text{ to } 1$$

Reel Strip Number 3285 HOLD % 5.325 Denomination:
 MODEL #:

90% Confidence value, 10,000,000 pulls - LOW %: 94.32 HIGH %: 95.03

COIN #	PERCENT PAY BACK	HIT FREQ	TOTAL HITS	TOTAL PAYS	SYM	NUMBER / REEL
						R1 R2 R3
1	94.370%	16.335%	42820.	247384.	~~	24 28 29
2	94.675%	16.335%	42820.	496368.	B7	8 2 2
					HB	12 4 9
					RB	4 12 12
					BB	12 12 4
					H7	2 2 6
					R7	2 4 2

This is a 3 reel, 2 coin multiplier, 64 stop machine. Reel Combinations: 262144.

90% CONFIDENCE VALUES

VOLATILITY INDEX = 11.174

HANDLE PULLS	LOWER PERCENTAGE	UPPER PERCENTAGE
1000.	59.34	130.01
10000.	83.50	105.85
100000.	91.14	98.21
1000000.	93.56	95.79
10000000.	94.32	95.03

PAY TABLE FILE NAME: PTDAT: SS3285.PAY

REEL STRIP FILE NAME: RSDAT: SS3285.LAY

OPERATOR'S INITIALS: km

COMMENTS: NONE

PAY TYPE.....: Pays Only Highest Winner Per Lit Line

: _____

FROM SS #.....:

: _____

TO SS #.....:

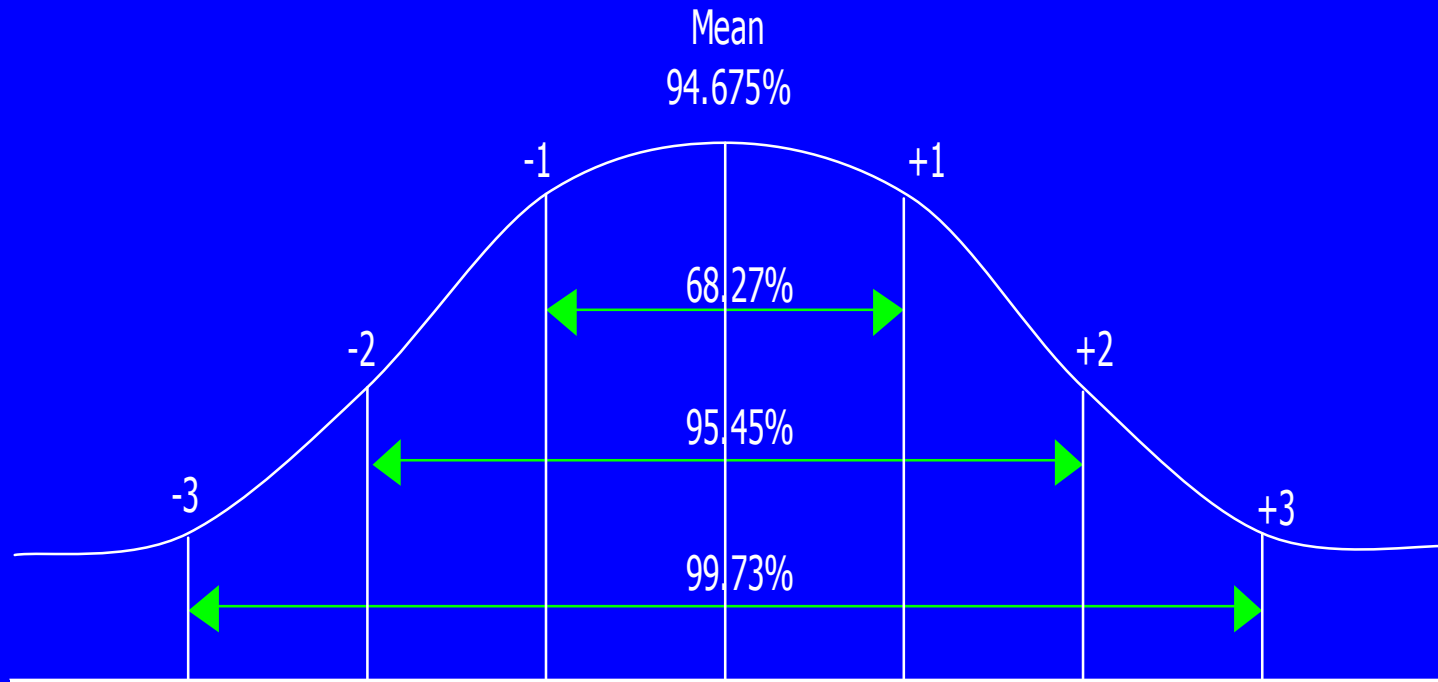
: _____

Special Symbols

AB : HB, RB, BB

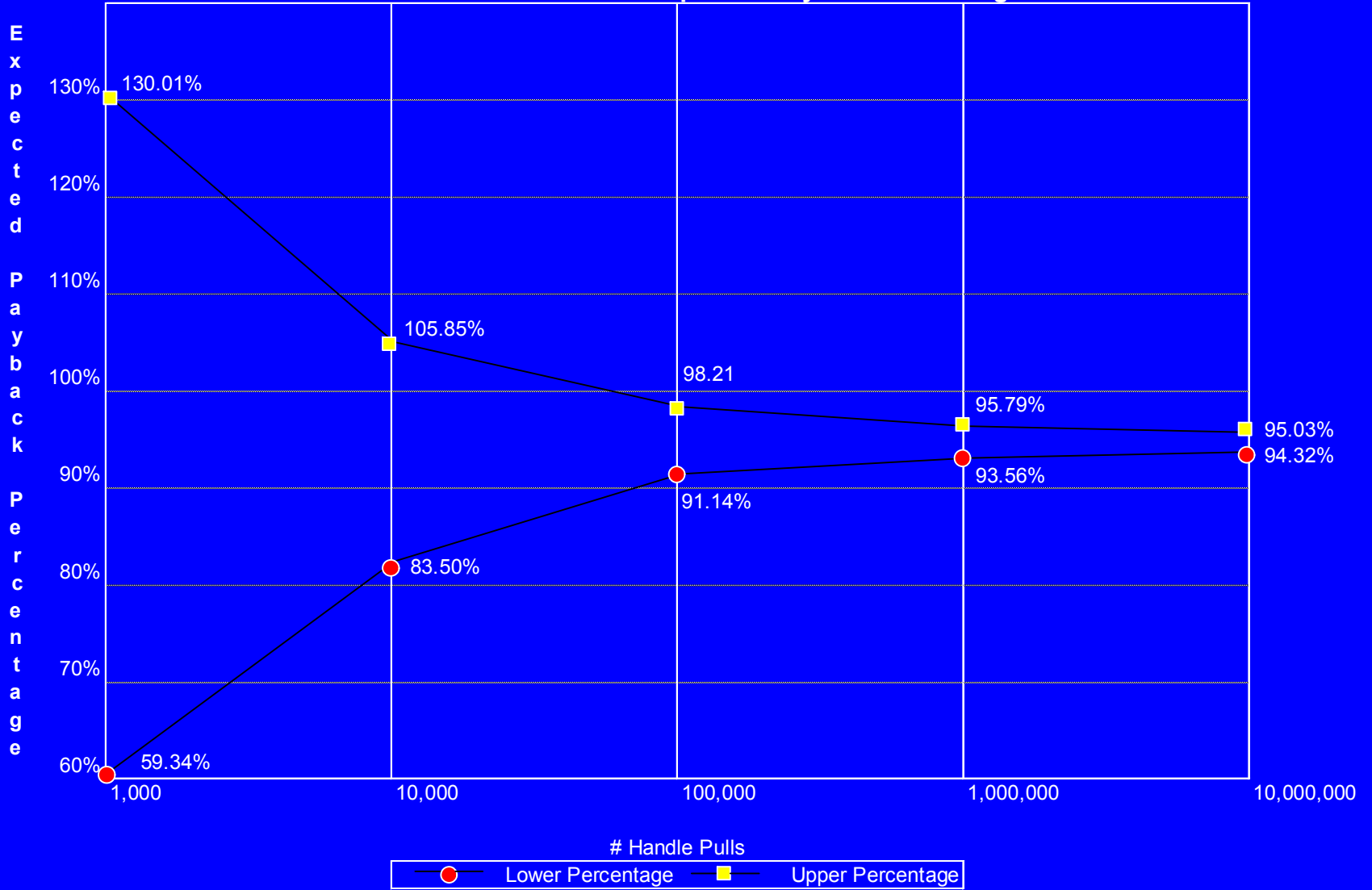
A7 : B7, H7, R7 AR : RB, R7 AW : HB, H7 AL : B7, BB

Payback Percentage Standard Deviation Chart



Red, White & Blue

90% Confidence Limits on Expected Payback Percentages



90% CONFIDENCE VALUES

VOLATILITY INDEX = 11.174

HANDLE PULLS	LOWER PERCENTAGE	UPPER PERCENTAGE
1000.	59.34	130.01
10000.	83.50	105.85
100000.	91.14	98.21
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10000000.	94.32	95.03

PAY TABLE FILE NAME: PTDAT: SS3285.PAY

REEL STRIP FILE NAME: RSDAT: SS3285.LAY

OPERATOR'S INITIALS: km

COMMENTS: NONE

PAY TYPE.....: Pays Only Highest Winner Per Lit Line

: _____

FROM SS #.....:

: _____

TO SS #.....:

: _____

Special Symbols

AB : HB, RB, BB

A7 : B7, H7, R7 AR : RB, R7 AW : HB, H7 AL : B7, BB

Volatility:

The degree to which a machine is likely to hold its theoretical percentage due to the relative weight of pays on the high side of the paytable.

Questions?

Thank you
for your attention.

Ken