# Fish Passage Plan (FPP) Change Form

**Change Form # & Title**: 21MCN005 – Corrected Table MCN-7

**Date Submitted**: 23 March 2021

**Project**: McNary Dam

**Requester Name, Agency**: Lisa Wright, Corps RCC

**Final Action:** **APPROVED – 8 April 2021**

**FPP Section**: Table MCN-7. Spill Patterns with TSWs.

**Justification for Change**:

The project noticed that the total spill rate for 28 stops in Table MCN-7 was less than spill for 27 stops, which is not correct since spill increases with each additional gate stop opening. After troubleshooting, an error was found in the calculation of spill through bays 1 and 3 open to a half stop, which reduced the Total Spill rate for those rows by 1.7 kcfs. Both bays should be open a whole number of stops and Total Spill for those rows increased by 1.7 kcfs.

**Proposed Change**: See below with edits to existing Table MCN-7 in “track changes”.

**Comments**:

**Record of Final Action**: Approved at FPOM on April 8, 2021.

**Table MCN-7. [*pg 1 of 5*] McNary Dam Spill Patterns for Fish Passage with TSWs in Bays 19-20 and Bay 2 Locked at 4 or 6 Stops.**

| **MCN Spill Patterns with TSWs (# Gate Stops per Spillbay) and Bay 2 Locked at 4 or 6 Stops** | | | | | | | | | | | | | | | | | | | | | | **Total Stops** | **Spill a** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** b | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** b | **(#)** | **(kcfs)** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | TSW | TSW | 1 |  | **1** | **21.2** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | TSW | TSW | 1 |  | **2** | **23.2** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | TSW | TSW | 1 | 1 | **3** | **25.2** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | TSW | TSW | 2 | 1 | **4** | **27.1** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | TSW | TSW | 2 | 1 | **5** | **29.0** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | TSW | TSW | 2 | 1 | **6** | **31.0** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | TSW | TSW | 2 | 1 | **7** | **32.9** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 2 | 2 | TSW | TSW | 2 | 1 | **8** | **34.9** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 2 | 2 | TSW | TSW | 2 | 2 | **9** | **36.8** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |  | 2 | 2 | TSW | TSW | 2 | 2 | **10** | **38.7** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **11** | **40.7** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **12** | **42.6** |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **13** | **44.6** |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **14** | **46.5** |
|  |  |  |  |  |  |  |  |  |  | 1 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **15** | **48.5** |
|  |  |  |  |  |  |  |  |  |  | 2 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **16** | **50.4** |
|  |  |  |  |  |  |  |  | 1 |  | 2 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **17** | **52.4** |
|  |  |  |  |  |  |  |  | 2 |  | 2 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **18** | **54.3** |
|  |  |  |  |  |  |  |  | 2 | 1 | 2 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **19** | **56.3** |
|  |  |  |  |  |  |  |  | 2 | 2 | 2 |  | 2 |  | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **20** | **58.2** |
|  |  |  |  |  |  |  |  | 2 | 2 | 2 |  | 2 | 1 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **21** | **60.2** |
|  |  |  |  |  |  |  |  | 2 | 2 | 2 |  | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **22** | **62.1** |
|  |  |  |  |  |  |  |  | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **23** | **64.1** |
|  |  |  |  |  |  |  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **24** | **66.0** |
|  |  |  |  |  |  | 1 |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **25** | **68.0** |
|  |  |  |  |  |  | 2 |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **26** | **69.9** |
|  |  |  |  | 1 |  | 2 |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 2 | 2 | **27** | **71.9** |
| 3 |  | 3 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **28** | **73.4** |
| 3 |  | 3 |  | 2 | 1 | 2 |  | 2 |  | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **29** | **75.4** |
| 3 |  | 3 |  | 2 | 1 | 2 |  | 2 | 1 | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **30** | **77.4** |
| 3 |  | 3 |  | 2 | 1 | 2 |  | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **31** | **79.4** |
| 3 | 4 | 3 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **32** | **80.6** |
| 3 | 4 | 3 |  | 2 | 1 | 2 |  | 2 |  | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **33** | **82.6** |
| 3 | 4 | 3 |  | 2 | 1 | 2 |  | 2 | 1 | 2 |  | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **34** | **84.6** |
| 3 | 4 | 3 |  | 2 | 1 | 2 |  | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **35** | **86.6** |
| 3 | 4 | 3 |  | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **36** | **88.6** |
| 3 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 2 | 2 | **37** | **90.6** |
| 3 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | TSW | TSW | 3 | 2 | **38** | **92.3** |
| 3 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | TSW | TSW | 3 | 2 | **39** | **94.2** |
| 3 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | TSW | TSW | 3 | 3 | **40** | **95.9** |
| 3 | 4 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **41** | **97.8** |
| 3 | 4 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **42** | **99.7** |
| 3 | 4 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **43** | **101.6** |
| 3 | 4 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **44** | **103.5** |
| 3 | 4 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **45** | **105.4** |
| 3 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **46** | **107.3** |
| 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | TSW | TSW | 3 | 3 | **47** | **108.9** |
| 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | TSW | TSW | 3 | 3 | **48** | **110.6** |
| 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | TSW | TSW | 3 | 3 | **49** | **112.3** |
| 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | TSW | TSW | 3 | 3 | **50** | **114.0** |
| 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **51** | **115.7** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **52** | **117.4** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **53** | **119.1** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **54** | **120.8** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **55** | **122.5** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **56** | **124.2** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **57** | **125.9** |
| 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **58** | **127.6** |
| 3 | 4 | 5 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **59** | **129.2** |
| 3 | 4 | 5 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **60** | **130.9** |
| 3 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **61** | **132.6** |
| 3 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **62** | **134.3** |
| 3 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **62** | **134.3** |
| 3 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **63** | **136.0** |
| 4 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | TSW | TSW | 3 | 3 | **64** | **137.6** |
| 4 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | TSW | TSW | 3 | 3 | **65** | **139.2** |
| 4 | 4 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **66** | **140.8** |
| 4 | 4 | 5 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **67** | **142.4** |
| 4 | 4 | 5 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **68** | **144.0** |
| 4 | 4 | 5 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **69** | **145.6** |
| 4 | 4 | 5 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **70** | **147.2** |
| 4 | 4 | 5 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **71** | **148.8** |
| 4 | 4 | 5 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **72** | **150.4** |
| 4 | 4 | 5 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **73** | **152.0** |
| 4 | 4 | 5 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **74** | **153.6** |
| 4 | 4 | 5 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **75** | **155.2** |
| 4 | 4 | 5 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | TSW | TSW | 3 | 3 | **76** | **156.8** |
| 4 | 4 | 5 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | TSW | TSW | 3 | 3 | **77** | **158.4** |
| 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | TSW | TSW | 3 | 3 | **78** | **160.0** |
| 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | TSW | TSW | 4 | 3 | **79** | **161.6** |
| 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | TSW | TSW | 4 | 3 | **80** | **163.2** |
| 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | TSW | TSW | 4 | 3 | **81** | **164.8** |
| 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | TSW | TSW | 4 | 3 | **82** | **166.4** |
| 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **83** | **168.0** |
| 5 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **84** | **169.6** |
| 5 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **85** | **171.2** |
| 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **86** | **172.8** |
| 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **87** | **174.4** |
| 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **88** | **176.0** |
| 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 4 | 3 | **89** | **177.6** |
| 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 5 | 3 | **90** | **179.2** |
| 5 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 5 | 3 | **91** | **180.8** |
| 5 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 5 | 3 | **92** | **182.4** |
| 5 | 4 | 5 | 4 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 5 | 3 | **93** | **184.0** |
| 5 | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 4 | 5 | 5 | TSW | TSW | 5 | 3 | **94** | **185.6** |
| 5 | 4 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 3 | **95** | **187.2** |
| 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 3 | **96** | **188.8** |
| 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 4 | **97** | **190.4** |
| 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 4 | **98** | **192.0** |
| 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 4 | **99** | **193.6** |
| 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | TSW | TSW | 5 | 4 | **100** | **195.2** |
| 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | TSW | TSW | 5 | 4 | **101** | **196.8** |
| 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | TSW | TSW | 5 | 5 | **102** | **198.4** |
| 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | TSW | TSW | 6 | 5 | **103** | **200.0** |
| 5 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | TSW | TSW | 6 | 5 | **104** | **201.6** |
| 5 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | TSW | TSW | 6 | 5 | **105** | **203.2** |
| 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | TSW | TSW | 6 | 5 | **106** | **204.8** |
| 5 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **107** | **206.4** |
| 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **108** | **208.0** |
| 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **109** | **209.6** |
| 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **110** | **211.2** |
| 5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **111** | **212.8** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **112** | **214.4** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **113** | **216.0** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **114** | **217.6** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **115** | **219.2** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **116** | **220.8** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **117** | **222.4** |
| 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **118** | **224.0** |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | TSW | TSW | 6 | 5 | **119** | **225.6** |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | TSW | TSW | 6 | 5 | **120** | **227.2** |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | TSW | TSW | 7 | 6 | **122** | **230.4** |
| 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | TSW | TSW | 7 | 6 | **124** | **233.6** |
| 6 | 6 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **126** | **236.8** |
| 6 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **128** | **240.0** |
| 6 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **130** | **243.2** |
| 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **132** | **246.4** |
| 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **134** | **249.6** |
| 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **136** | **252.8** |
| 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | TSW | TSW | 7 | 6 | **138** | **256.0** |
| 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | TSW | TSW | 7 | 7 | **140** | **259.3** |
| 7 | 6 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | TSW | TSW | 8 | 7 | **142** | **262.7** |
| 7 | 6 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | TSW | TSW | 8 | 7 | **144** | **266.1** |
| 7 | 6 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **146** | **269.5** |
| 7 | 6 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **148** | **272.9** |
| 7 | 6 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **150** | **276.3** |
| 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **152** | **279.7** |
| 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **154** | **283.1** |
| 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 7 | **156** | **286.5** |
| 8 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | TSW | TSW | 8 | 8 | **158** | **289.9** |
| 8 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | TSW | TSW | 9 | 8 | **160** | **293.1** |
| 8 | 6 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | TSW | TSW | 9 | 8 | **162** | **296.3** |
| 8 | 6 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **164** | **299.5** |
| 8 | 6 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **166** | **302.7** |
| 8 | 6 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **168** | **305.9** |
| 8 | 6 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **170** | **309.1** |
| 8 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **172** | **312.3** |
| 8 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **174** | **315.5** |
| 9 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | TSW | TSW | 9 | 8 | **176** | **318.7** |
| 9 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | TSW | TSW | 9 | 9 | **178** | **321.9** |
| 9 | 6 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | TSW | TSW | 10 | 9 | **180** | **325.1** |
| 9 | 6 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | TSW | TSW | 10 | 9 | **182** | **328.3** |
| 9 | 6 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **184** | **331.5** |
| 9 | 6 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **186** | **334.7** |
| 9 | 6 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **188** | **337.9** |
| 9 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **190** | **341.1** |
| 9 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **192** | **344.3** |
| 9 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 9 | **194** | **347.5** |
| 10 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | TSW | TSW | 10 | 10 | **196** | **350.7** |
| 10 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | TSW | TSW | 11 | 10 | **198** | **353.7** |
| 10 | 6 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | TSW | TSW | 11 | 10 | **200** | **356.7** |
| 10 | 6 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **202** | **359.7** |
| 10 | 6 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **204** | **362.7** |
| 10 | 6 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **206** | **365.7** |
| 10 | 6 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **208** | **368.7** |
| 10 | 6 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **210** | **371.7** |
| 10 | 6 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **212** | **374.7** |
| 11 | 6 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | TSW | TSW | 11 | 10 | **214** | **377.7** |
| 11 | 6 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | TSW | TSW | 11 | 11 | **216** | **380.8** |
| 11 | 6 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | TSW | TSW | 12 | 11 | **218** | **384** |
| 11 | 6 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | TSW | TSW | 12 | 11 | **220** | **387.2** |
| 11 | 6 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **222** | **390.4** |
| 11 | 6 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **224** | **393.6** |
| 11 | 6 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **226** | **396.8** |
| 11 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **228** | **400** |
| 11 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **230** | **403.2** |
| 11 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 11 | **232** | **406.4** |
| 12 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | TSW | TSW | 12 | 12 | **234** | **409.6** |
| 12 | 6 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | TSW | TSW | 13 | 12 | **236** | **412.8** |
| 12 | 6 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | TSW | TSW | 13 | 12 | **238** | **416** |