REGISTER 5-2: STATUS REGISTER

U-0	U-0	U-0	R/W-x	R/W-x	R/W-x	R/W-x	R/W-x	
_	-	_	N	OV	Z	DC	C	
bit 7			•	•	•		bit 0	

bit 7-5 Unimplemented: Read as '0'

bit 4 N: Negative bit

This bit is used for signed arithmetic (2's complement). It indicates whether the result was negative (ALU MSB = 1).

- 1 = Result was negative
- 0 = Result was positive

bit 3 OV: Overflow bit

This bit is used for signed arithmetic (2's complement). It indicates an overflow of the 7-bit magnitude which causes the sign bit (bit 7 of the result) to change state.

- 1 = Overflow occurred for signed arithmetic (in this arithmetic operation)
- 0 = No overflow occurred

bit 2 Z: Zero bit

- 1 = The result of an arithmetic or logic operation is zero
- 0 = The result of an arithmetic or logic operation is not zero

DC: Digit Carry/borrow bit bit 1

For ADDWF, ADDLW, SUBLW and SUBWF instructions:

- 1 = A carry-out from the 4th low-order bit of the result occurred
- 0 = No carry-out from the 4th low-order bit of the result

For borrow, the polarity is reversed. A subtraction is executed by adding the 2's complement of the second operand. For rotate (RRF, RLF) instructions, this bit is loaded with either bit 4 or bit 3 of the source register.

bit 0 C: Carry/borrow bit

For ADDWF, ADDLW, SUBLW and SUBWF instructions:

- 1 = A carry-out from the Most Significant bit of the result occurred
- 0 = No carry-out from the Most Significant bit of the result occurred

For borrow, the polarity is reversed. A subtraction is executed by adding the 2's complement of the second operand. For rotate (RRF, RLF) instructions, this bit is loaded with either the high or low-order bit of the source register.

Legend:			
R = Readable bit	W = Writable bit	W = Writable bit U = Unimplemented	
-n = Value at POR	'1' = Bit is set	'0' = Bit is cleared	x = Bit is unknown